

# THE ARCHITECTS' JOURNAL



## standard contents

every issue does not necessarily contain all these contents, but they are the regular features which continually recur.

## NEWS and COMMENT

Diary

News

Astragal's Notes and Topics

Letters

Societies and Institutions

## TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

## PHYSICAL PLANNING SUPPLEMENT

## CURRENT BUILDINGS

## HOUSING STATISTICS

Architectural Appointments  
Wanted and Vacant

★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158/1601
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450	Museum 1783
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4071	Museum 1797/5176
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 1797/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851	Abbey 6172
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128	Museum 9200
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). Secretary: Gontran Goulden, Building Centre, 26, Store Street, W.C.1. Museum 5400	Whitehall 3400
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. 23, Saville Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James' Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933	Mayfair 9494
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/4054	Macaulay 4451
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Whitehall 1693
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 1693
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1. Langham 4341	Molesey 1380
NPL	National Physical Laboratory. Head Office, Teddington.	City 1476
NSA	National Sawmilling Association. 14, New Bridge Street, E.C.4.	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1. Abbey 1359	Whitehall 0211
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 7245
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 9936
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Edinburgh 20396
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Langham 5721
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Whitehall 5322/9242
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 3935
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Regent 3335
RS	Royal Society. Burlington House, Piccadilly, W.1.	Trafalgar 2366
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Sloane 5134
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Wimbledon 5101
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House, 3921
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	Holborn 2646
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Temple Bar 5006
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	City 4771
TDA	Timber Development Association. 21, College Hill, E.C.4.	Sloane 4554
TGC	The Gas Council. 1, Grosvenor Place, S.W.1.	Victoria 8815
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	City 4444
TTF	Timber Trades Federation. 69, Cannon Street, E.C.4.	City 4444
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 74, Victoria St., S.W.1.	Victoria 5783
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

No. 2980]

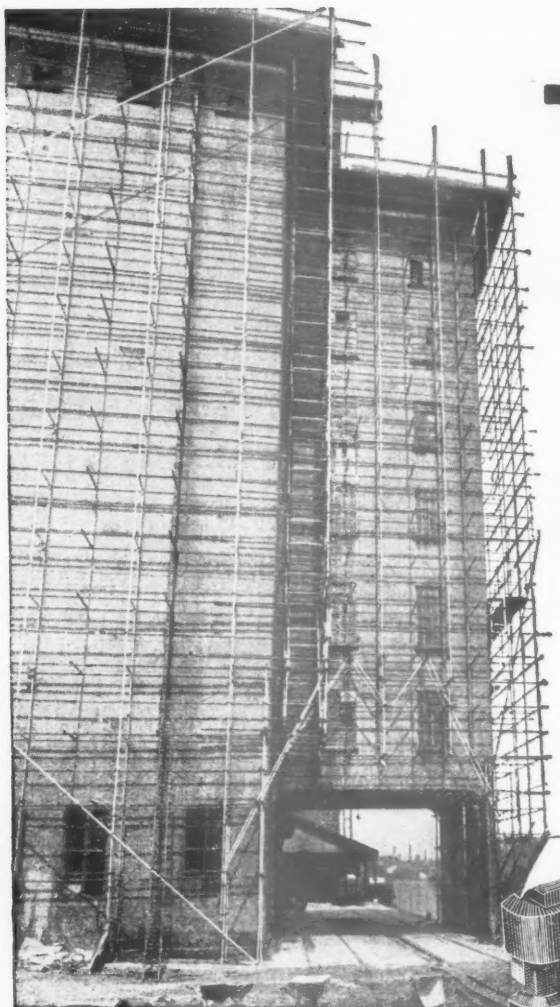
[Vol. 115

THE ARCHITECTURAL PRESS  
11 and 13, Queen Anne's Gate, Westminster,  
W.1. Phone: Whitehall 0611

Price 1s. 0d.

Registered as a Newspaper.

**TO ENSURE THAT THE SCAFFOLDING WILL BE  
STARTED AND COMPLETED TO YOUR SCHEDULE**

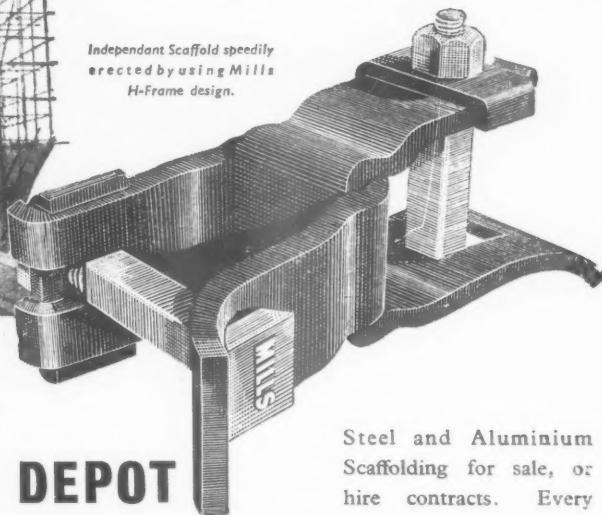


Premises of John Jackson & Son's Flour Mills, Ordsall Lane, Salford.

**-simply  
call up  
MILLS**

**...AND SAVE TIME**

*Independent Scaffold speedily  
erected by using Mills  
H-Frame design.*



**TELEPHONE YOUR  
NEAREST DEPOT**



BELFAST • BIRMINGHAM • BOURNEMOUTH  
BRADFORD • BRIGHTON • BRISTOL  
CANTERBURY • CARDIFF • COVENTRY  
CROYDON • DUBLIN • GLASGOW • HULL  
ILFORD • LIVERPOOL • LOWESTOFT • MANCHESTER  
NEWCASTLE • NORWICH • PORTSMOUTH • PLYMOUTH  
READING • SOUTHAMPTON • SWANSEA • YARMOUTH

Steel and Aluminium  
Scaffolding for sale, or  
hire contracts. Every  
requirement met also for  
ancillary equipment, in-  
cluding: Shuttering • Steel  
Props • Trench Struts  
• Splitheads • Hoists •  
Concrete Mixers • Cradles  
• Builder's Hand Carts •  
Barrows • Trestles, etc.

MILLS SCAFFOLD CO. LTD., Head Office and Depot: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W.6 • Tel.: RIVerside 5025.1



E  
E

7

●

●

E

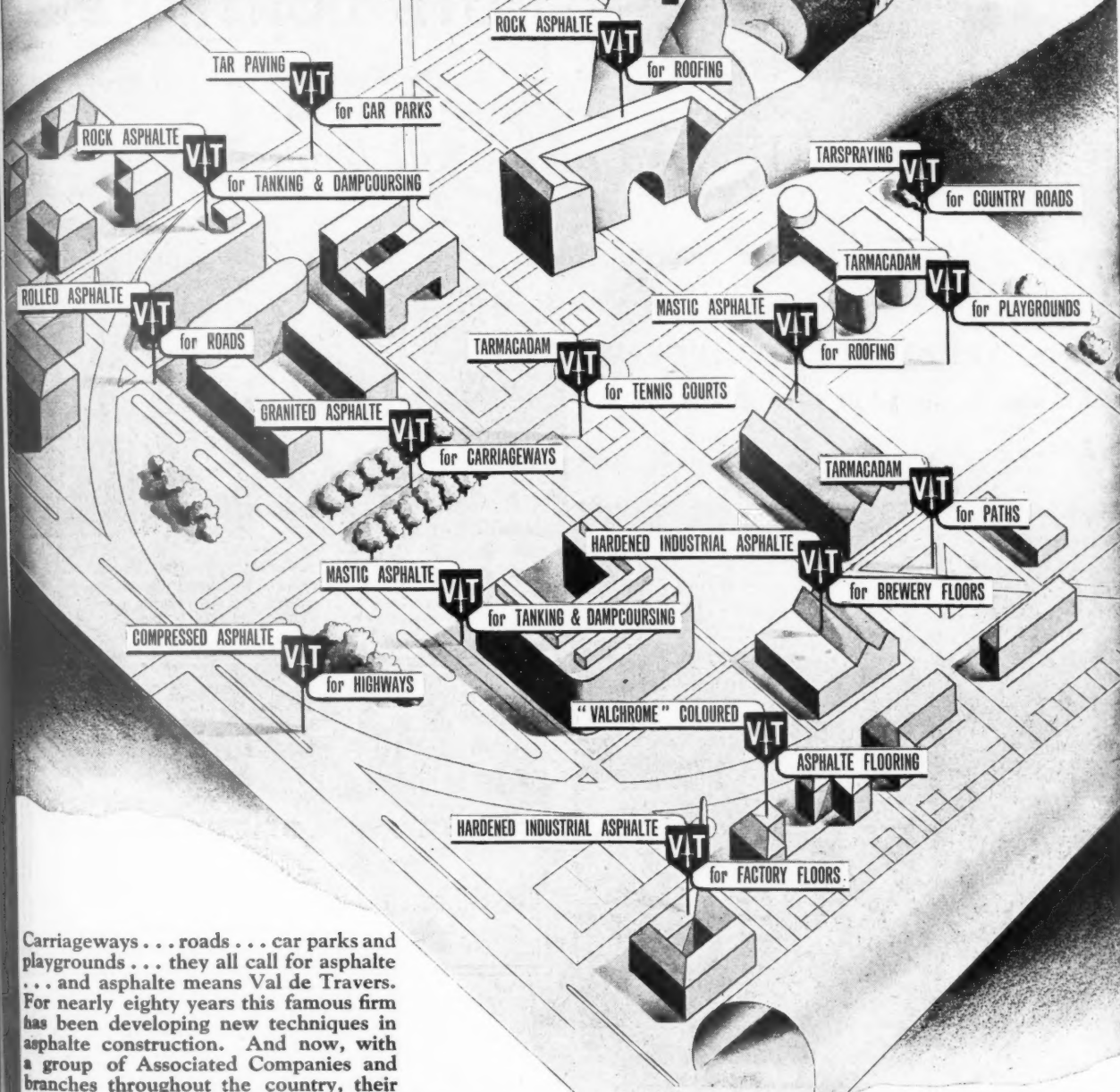
●



Carria  
playgr  
... an  
For ne  
has be  
asphal  
a gro  
branch  
knowl  
resour  
this fi

• ASPH  
Sicly  
CONTR  
ADAM  
MAKER  
PAINT  
and PLA  
THERM

# Plan for Asphalte



Carriageways . . . roads . . . car parks and playgrounds . . . they all call for asphalte . . . and asphalte means Val de Travers. For nearly eighty years this famous firm has been developing new techniques in asphalte construction. And now, with a group of Associated Companies and branches throughout the country, their knowledge, experience, and general resources make them pre-eminent in this field.

## ACTIVITIES

of the Company and its Associates

• ASPHALTE MINE OWNERS in Germany and Sicily • QUARRY OWNERS • ASPHALTE CONTRACTORS • TAR PAVIORS • TARMACADAM MANUFACTURERS • ASPHALTE GROUT MAKERS • TAR SPRAYERS • ROAD LINE PAINT SPECIALISTS • HARD TENNIS COURT and PLAYGROUND CONSTRUCTORS • VALCOTHERM TILE MANUFACTURERS.



# VAL DE TRAVERS

*The name that stands supreme for product and service*

THE VAL DE TRAVERS ASPHALTE PAVING COMPANY LIMITED  
VAL DE TRAVERS HOUSE, 21 - 22 OLD BAILEY, LONDON, E.C.4

Telephone: City 7001 (10 lines) • Telegrams: Traversable, Telex, London

## ASSOCIATED COMPANIES

A. C. W. HOBMAN & CO. LTD. TARROADS LTD. THE DIAMOND TREAD (1938) LTD.  
THE LONDON ASPHALTE CO. LTD. SICILIAN ROCK ASPHALTE CO. LTD. UNITED  
LIMMER & VORWOLLE ROCK ASPHALTE CO. LTD. W. G. WALKER (GLASGOW) LTD.

## BRANCHES

BIRMINGHAM • CANTERBURY • EXETER • GLASGOW • LINCOLN  
LIVERPOOL • MANCHESTER • NEWCASTLE-ON-TYNE



# OFFICIAL BUILDINGS *govern their windows with*



## REMOTE CONTROLS,

COVERED BY PATENTS

## *as do FACTORIES and almost all kinds of buildings*

**W**HETHER long, lofty, official or residential,  
one or many at a time,

### ARENS WINDOW CONTROL GEAR

governs the opening of all sorts of windows in  
all manner of places.



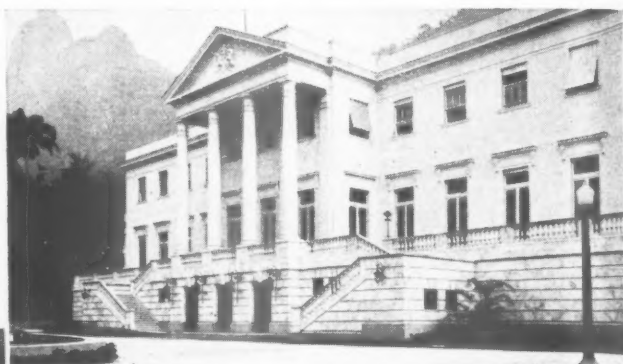
An H.H./M.H. Type 3 control fitted to a 16 ft. long top-hung window in the Canteen of the G.P.O. Stores at Brimsdown.  
Architect: Eric H. Firmin, A.R.I.B.A.  
Arens gear supplied by Aygee, Limited, of Perivale.



## ARENS CONTROLS LTD.

TUNSTALL ROAD • EAST CROYDON • SURREY

Telephone: ADDiscombe 3051/4



H.B.M. Embassy, Rio de Janeiro.

Architect: R. R. Prentice, in collaboration with the Ministry of Works.  
Arens gear supplied by Senlac Metal Casements, Ltd., of Battle, Sussex.  
Photograph reproduced by permission of the Ministry of Works  
(Crown Copyright reserved).

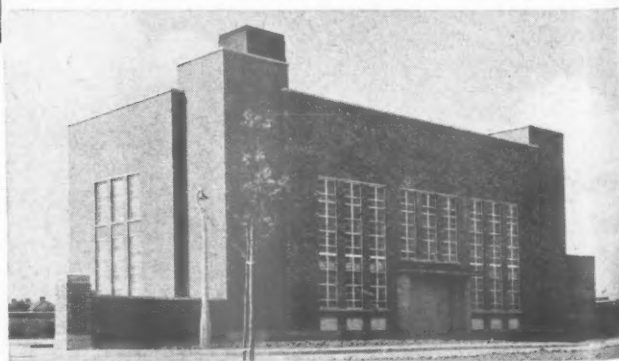
## NEW ARENS CATALOGUE!

Containing full particulars of our

### WINDOW CONTROL GEAR

76 pages—fully illustrated

ARCHITECTS and PRINCIPALS are invited to write  
to us for a copy



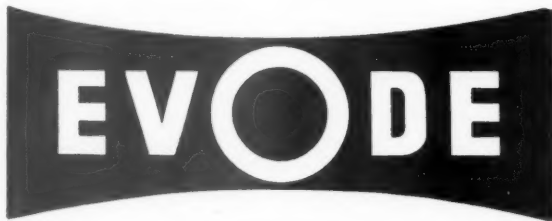
One of the new buildings of the Ministry of National Insurance, Newcastle-on-Tyne, which is fitted with Arens gear.

Architects: Ministry of Works.  
Arens controls supplied by the Rustproof Metal Window Company, Limited, of Chester.  
Photograph reproduced by permission of the Ministry of Works (Crown Copyright reserved).

# New floors old floors

{ and the famous ground  
floor one gets in on }

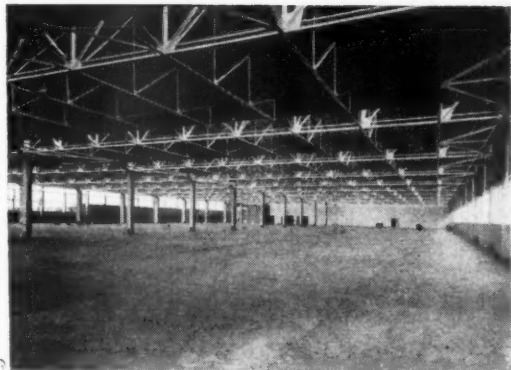
*benefit from*



## PROVERS

Part of the job of putting Britain on a sound footing rests squarely on smooth, clean dustless works, mill and factory floors—a high productivity factor, a safety factor too. Evode Provers make concrete and, granolithic floors permanent, hard wearing and dustless.

They are specialized products. Prover II for new floors, Prover V for old floors—neither contains silicate of soda.



C.I.E. BUS DEPOT, INCHICORE, DUBLIN: Main area 360ft. by 200ft. EVODE MELLITOL incorporated into the mix and EVODE PROVER II CRYSTALS applied as a surface treatment afterwards.

Write for leaflet P8492 for details of treatment and prices to

**EVODE LIMITED**

**GLOVER STREET**

**STAFFORD**

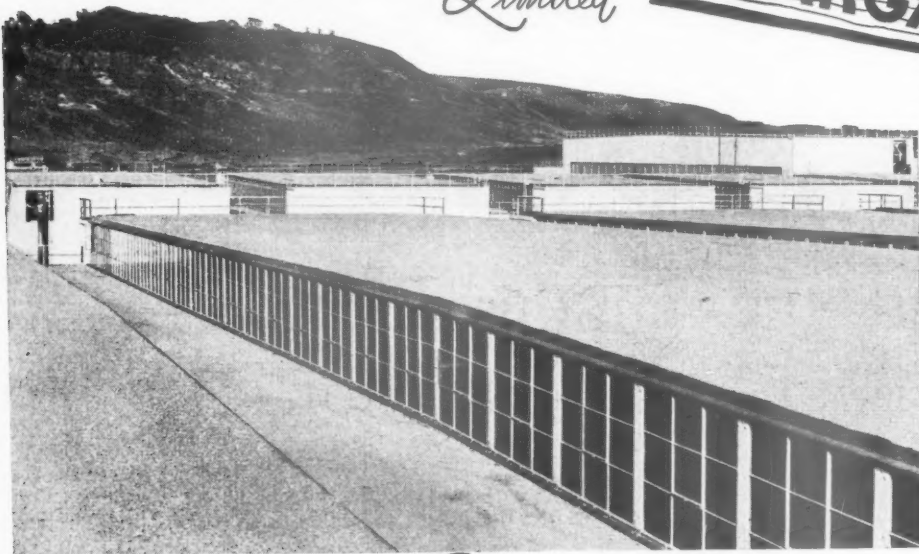
Telephone: 1590/1/2

Telegrams: EVODE STAFFORD

THE STEEL COMPANY OF WALES

*Limited*

MARGAM



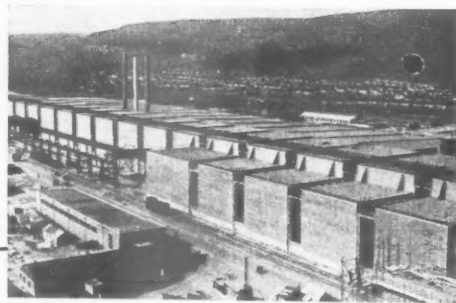
160,000 SQUARE FEET  
OF  $\frac{1}{4}$  INCH CAST GLASS  
GLAZED WITH

**SEALON**

REGD.

metal casement

**PUTTY**



Glazing Contractors

**Bristow, Wadley & Co. Ltd.**

Swansea & Cardiff

OBTAINABLE FROM ALL LEADING MERCHANTS

SOUTHERN & MIDLAND AGENTS:

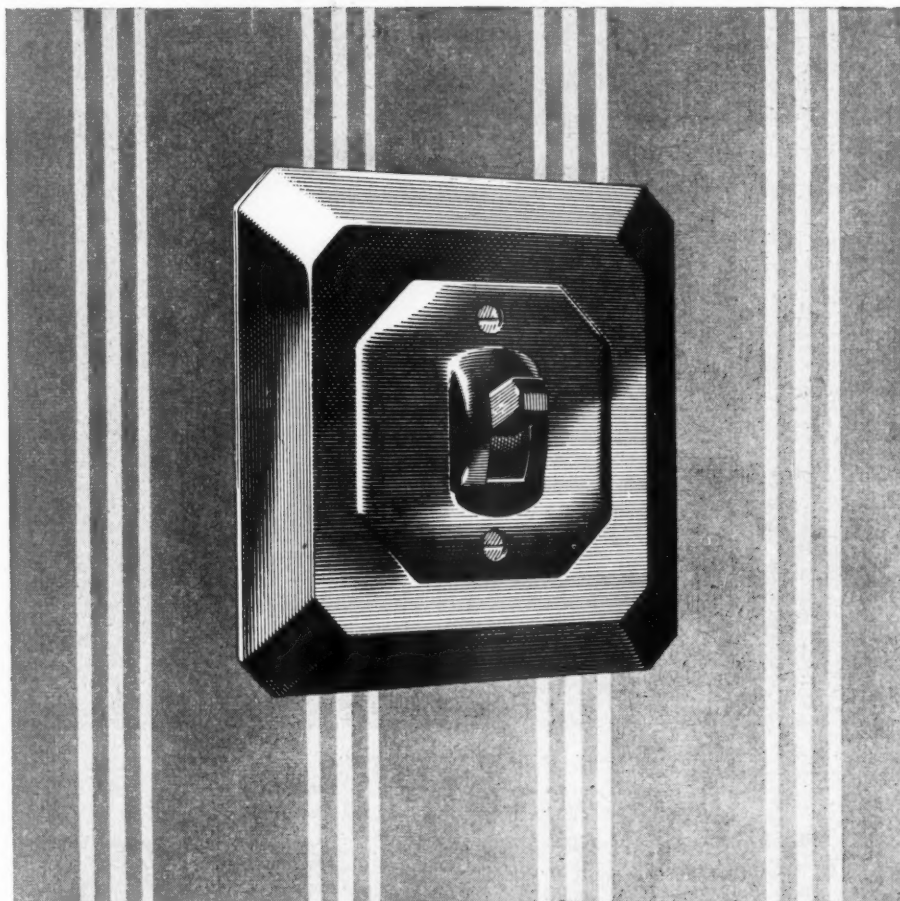
**HARRISON, CLARK LTD., LEIGH-ON-SEA, ESSEX**

Manufactured by the largest exclusive manufacturers of Putties and similar compositions in Great Britain

**SEALANCO (ST. HELENS) LTD., ST. HELENS, LANCs.**







**Switch**  
**in**  
**the modern**  
**manner**

MEM tumbler switches are modern in the best way—clean-lined, simple and unadorned. You can choose them for any home or public building without fear of their dating. And your electrical contractor knows that they are just as well designed from the engineering standpoint. Here again you get the best that modern mass precision manufacture has to offer.



Switch, fuse and  
motor control gear,  
electric fires and localised  
lighting equipment

*Send for list with full details of  
the range : 5 amps, 250 volts, one  
and two way, surface, semi-  
recessed and flush mounting—also  
flush plates and wood and  
iron boxes.*

**MIDLAND ELECTRIC MANUFACTURING CO. LTD., BIRMINGHAM 11**

Branches in London and Manchester



## EUSTON HOTEL

Lancaster Washable Wallcovering makes a charming setting for the Dining Room at Euston Hotel. The photograph is reproduced by courtesy of the Hotels Executive, British Transport.

★ **DURABLE.** Lancaster Washable Wallcovering consists of a cotton fabric base factory-coated with several coats of paint by a special process. This process ensures perfect adhesion between coats and gives the Wallcovering exceptionally long life and durability.

★ **WASHABLE.** A damp cloth wipes away all normal dirt. Grease and soot can be removed with warm water and a little mild soap.

★ **EASY AND QUICK TO HANG.** Adhesive is applied to the wall, the fabric back of the Wallcovering gives a perfect bond and imperceptible butt joints. Lancaster Wallcovering is the equivalent of several coats of paint applied in one simple and quick operation.

★ **SMART APPEARANCE** because Lancaster Washable Wallcovering is so easy to keep clean and fresh. Manufacturing methods ensure even colouring and an attractive finish. No risk of unsightly cracks as in painted walls.

# LANCASTER

## WASHABLE WALLCOVERING

"LION"



BRAND

JAS. WILLIAMSON AND SON LIMITED · LANCASTER

London Office: EPWORTH HOUSE, 25-35 CITY ROAD, E.C.1

# EVIDENCE!



ORDINARY PORTLAND CEMENT    SULPHATE-RESISTING PORTLAND CEMENT

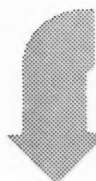


12 in. by 6 in. concrete cylinders mixed 4:2:1 with water/cement ratio of 0.6, made to Code of Practice. Both cylinders immersed for 30 Months in Magnesium Sulphate solution equivalent to 2%  $SO_3$ .

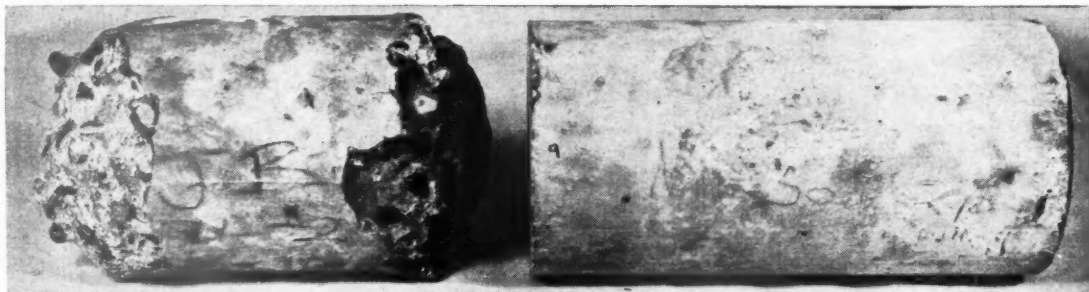
★

★

★



12 in. by 6 in. concrete cylinders mixed 4:2:1 with water/cement ratio of 0.6, made to Code of Practice. Both cylinders immersed for 30 Months in Sodium Sulphate Solution equivalent to 2%  $SO_3$ .



ORDINARY PORTLAND CEMENT

SULPHATE-RESISTING PORTLAND CEMENT

THE above reproductions of test specimens, made under identical conditions in our laboratory, illustrate the value of using S.R.P.C. Sulphate-Resisting Portland Cement for concrete work which is liable to the destructive action of soluble sulphates up to 2%  $SO_3$  by weight in soil or clay or 0.5%  $SO_3$  by weight in ground water.

## S · R · P · C

**SULPHATE-RESISTING PORTLAND CEMENT**



Full details will be sent on application to

**THE CEMENT MARKETING CO LTD**

PORTLAND HOUSE · TOTHILL STREET · LONDON S.W.1

OR G. & T. EARLE LTD · WILMINGTON · HULL

THE SOUTH WALES PORTLAND CEMENT & LIME CO LTD · PENARTH · GLAM



*You shouldn't miss*

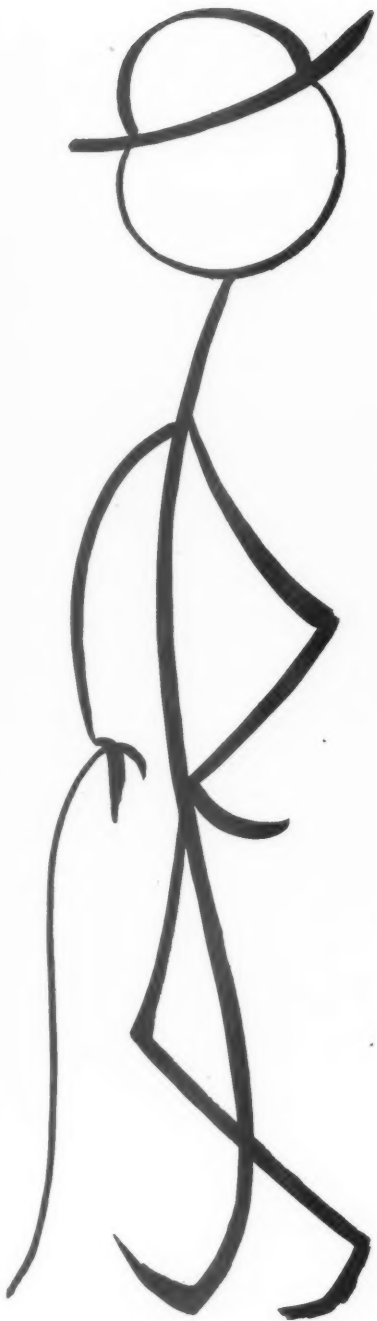
**GLOW-WORM**



We shall be very pleased to see you on our Stand at the B.I.F. at Birmingham from May 5th to 16th where you will be able to inspect the many heating and cooking appliances (oil fired and solid fuel) which we shall be exhibiting.

Please make a note to see **STAND B.308**

**GLOW-WORM BOILERS LTD**  
DERWENT FOUNDRY · MILFORD · Near DERBY  
London Showrooms 22/24 Buckingham Palace Road, S.W.1



*Introducing...*



A very important member of the Hills Family... he's a firm believer in the fact that Standardisation results in a far better product at lower cost. Consequently, the "quality-volume" line production methods he uses ensure maximum quality and workmanship and, at the same time, reduce the price of Hills Standard Doors.

It is his contribution to the Housing Minister's crusade for more houses... whether they be Peoples Houses, Timber Houses, Traditional or Non-Traditional... more houses at less cost, but with no lowering of quality.

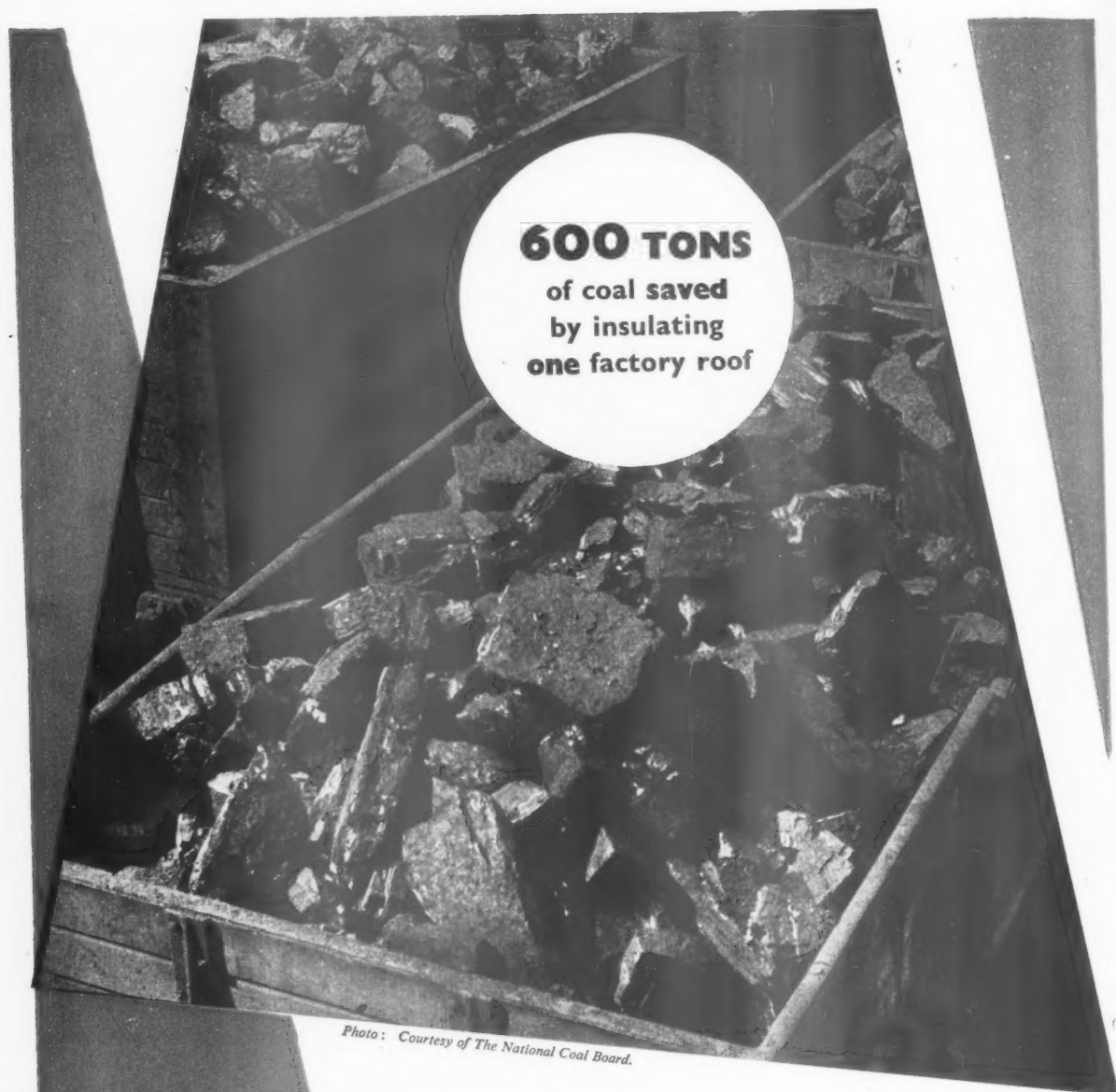
## **HILLS** *Grade One* **DOORS**

**save you Time, Trouble and Money!**

**F. HILLS AND SONS LIMITED**

NORTON ROAD, STOCKTON-ON-TEES.

Telephone: 67141.



*Photo: Courtesy of The National Coal Board.*

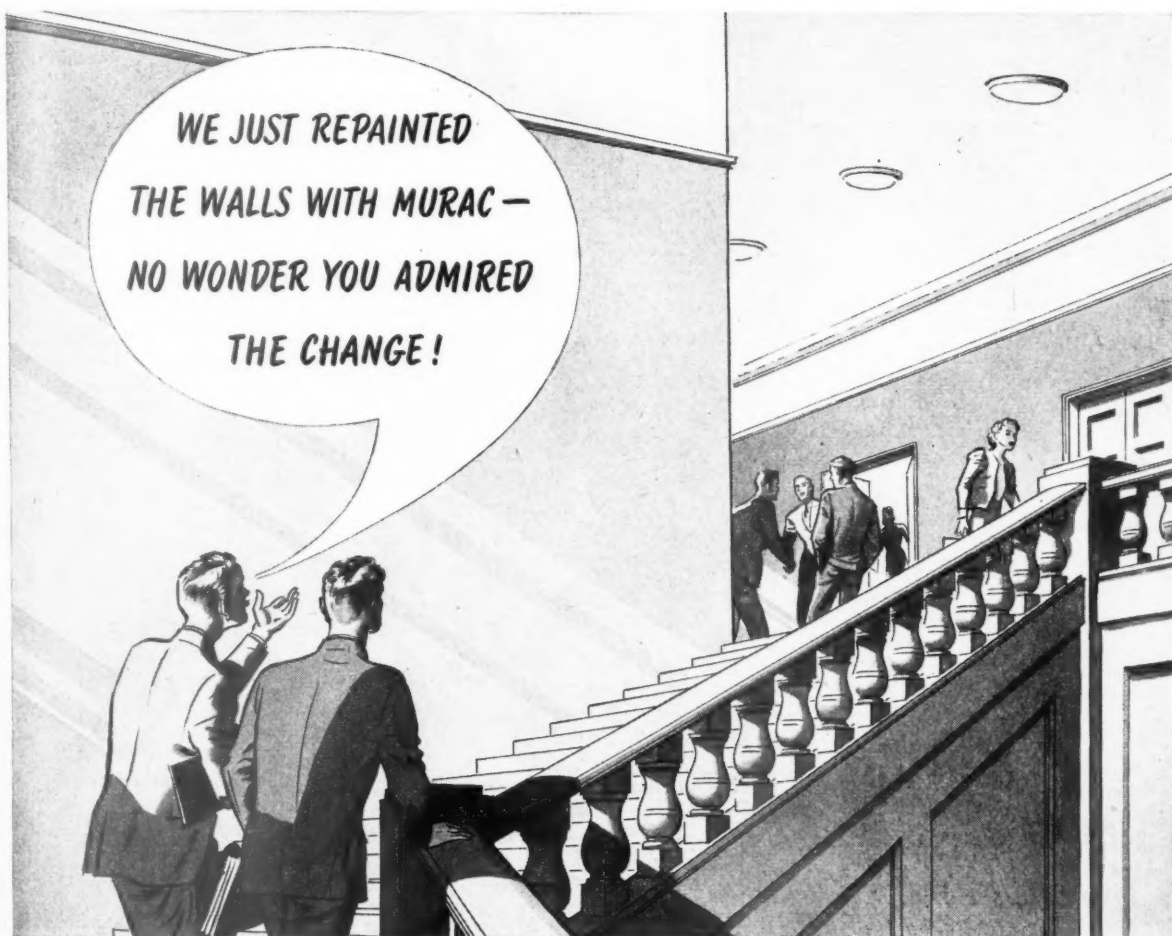
★ Your local Celotex distributor  
can meet your immediate  
requirements from stock.



Uninsulated factory roofs are like sieves. They allow nearly four-fifths of the heat used for space warming to escape before it has any real effect. This wasteful and costly process can be prevented by lining the roof with Celotex Insulating Board. In a steel-framed factory with 100,000 square feet of corrugated asbestos roof, for example, Celotex can save as much as 600 tons of coal a year. And the fuel that *is* consumed will warm the entire building effectively. This means not only lower fuel bills and greater comfort, but smaller, less expensive heating plant can be used. Celotex pays for itself again and again. Ministry of Fuel Efficiency Bulletin No. 12 shows the fuel savings possible when steel-framed roofs are insulated. Our technical department will gladly prepare specific data for your individual needs.

**CELOTEX LIMITED**  
NORTH CIRCULAR ROAD, STONEBRIDGE PARK,  
LONDON, N.W.10. (ELGAR 5717).





**I**N hotels, flats, private homes and offices; in hospitals, schools, public and factory buildings, MURAC gives a finish to walls that is quickly and economically applied, beautiful to see, easy to clean and *long lasting!*

#### MURAC SUPERSEDES DISTEMPER & WATER PAINT

Here's a matt oil paint as easy to put on as distemper, using a 6" flat wall brush. What a saving in labour costs alone! MURAC dries with a beautiful dull sheen, and its surface is so hard that not only can it be rubbed and scrubbed again and again, but it is also hygienic and impenetrable to dirt. MURAC is long-lasting, won't powder or flake, and comes in eighteen basic colours, easily blended to any shade you could want. It is made in the Brolac works by John Hall & Sons Ltd., who will gladly send you a **free colour scheme booklet** if you will write to them at the address below.

**YOU CAN  
WASH IT, RUB IT, SCRUB IT!**



# MURAC

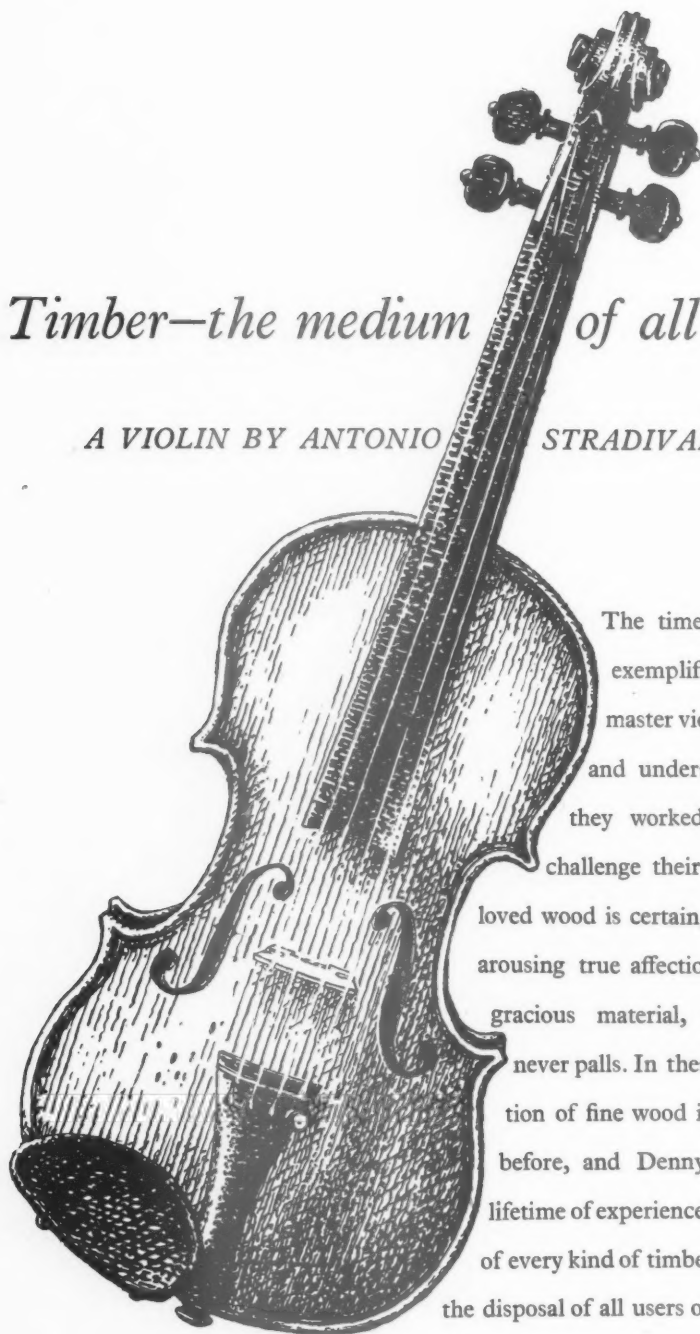
MATT OIL FINISH FOR WALLS



JOHN HALL & SONS (BRISTOL & LONDON) LIMITED, HENGROVE, BRISTOL, 4

## *Timber—the medium of all ages*

A VIOLIN BY ANTONIO STRADIVARI, CREMONA, 1698



The timeless nature of wood is well exemplified by the creation of the master violin makers, who so well knew and understood the medium in which they worked that nobody presumes to challenge their supremacy. That these men loved wood is certain, for wood has the power of arousing true affection in those who use it. It is a gracious material, whose beauty endures but never palls. In these modern days, the appreciation of fine wood is more widespread than ever before, and Denny, Mott & Dickson with a lifetime of experience in the supply and application of every kind of timber, gladly place their services at the disposal of all users of this most versatile material.

### *Denny Mott & Dickson Limited*

ADELAIDE HOUSE, KING WILLIAM STREET, LONDON, E.C.4.

Telephone: MANSION HOUSE 7961

Belfast, Birmingham, Bristol, Cardiff, Glasgow, Hull, Liverpool, Manchester, Newcastle, Preston, Southampton.

234-21

*"A job to be  
proud of!"*



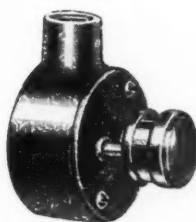
What satisfaction in  
a job well done.  
It is *inevitable* with  
Metallic quality and  
consistent accuracy.



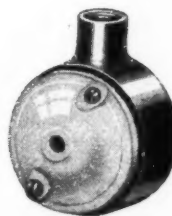
Screwed and  
Socketed Con-  
duit Thread



Sunk-type  
Switch  
Iron Cover



Sunk-type  
Plug Fitting  
Iron Cover



Direct Mount-  
ing, Flat type  
Ceiling Rose

*It always pays to  
SPECIFY*

**METALLIC**

**CONDUIT TUBE & FITTINGS**

A  COMPANY

THE METALLIC SEAMLESS TUBE CO. LTD. LUDGATE HILL, BIRMINGHAM, 3. Tel. CEN 7167  
Also at London • Newcastle-on-Tyne • Leeds • Swansea • Glasgow



BY APPOINTMENT  
PAINT AND WATER PAINT MANUFACTURERS TO THE LATE KING GEORGE VI.

Architects' specifications can be faithfully  
interpreted with paints from  
the Walpamur range

THE WALPAMUR CO LTD  
DARWEN AND LONDON



W175



## ACOUSTICAL PROBLEMS



Chamber of Commerce and Shipping—Hull.  
Architects: Messrs. Roper Spencer & Hall—Hull.  
Acoustical Contractors: N. R. Burnett Ltd.—Hull.

# SERVICE

is available for complete Schemes and Designs from the preliminary work to the finished job.

**METCO**  
**METAL FIXING**  
**SYSTEMS**  
Ceilings, Roof & Wall Linings



**Stocks carried of:—INSULATING BOARDS • ACOUSTICAL TILES • HARD BOARDS  
PERFORATED HARD BOARDS • ENAMELLED HARD BOARDS • JOINT COVERINGS  
COVER STRIPS AND ACCESSORIES**

★ Your enquiries and early consultation on your problems are invited

*The* **MERCHANT TRADING COMPANY** *Limited.*

**EFFINGHAM HOUSE, ARUNDEL STREET, STRAND, LONDON, W.C.2**

Telegrams: "Themetraco. Estrand, London." Telephone: TEMple Bar 5303 (8 lines)



# BEACON STEEL DOOR FRAMES



Installed at PIMLICO HOUSING SCHEME

Architects: Powell & Moya, A.A.R.I.B.A.

**JOHN THOMPSON BEACON WINDOWS**  
LIMITED

Ettingshall, Wolverhampton & Imperial House, Kingsway, London, W.C.2

Telephone: BILSTON 41121

Telephone: TEMPLE BAR 3216

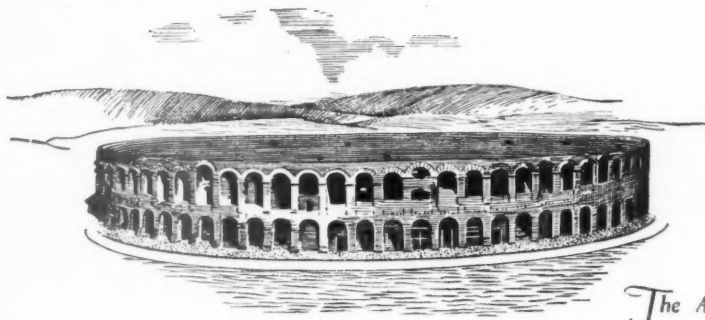
SEE OUR EXHIBIT AT THE BUILDING CENTRE, 26, STORE STREET, LONDON, W.C.1.







CLAY YESTERDAY . . . CLAY TODAY . . . CLAY TOMORROW



*The Amphitheatre at Verona*

# Clay LASTS

Clay played an important part in the form of bricks and tiles in the buildings of the Roman era. The Amphitheatre at Verona is a particularly fine example of the use of Clay in building construction and is still in an excellent state of preservation.

The fine state of preservation of many of the buildings of ancient Greece and Rome, now over 2,000 years old, are indicative of the excellence of the materials used in their construction; not the least being the Clay Roofing Tiles of these eras. Today the Clay Tile is still unsurpassed. Acme Tiles are made from the well-known Etruria Marls of North Staffordshire. Available in a large range of designs and colours Acme and Acme Sandstorm Clay Tiles enable the maintenance of uniformity in building schemes and at the same time provide for the taste of the individual. The Acme Catalogue, giving full information of the complete range of Acme Clay Roofing Tiles is available on request.

*The ACME Range of  
Roofing Tiles includes*

ACME M. M.  
ROOFING TILES  
ACME SANDSTORM  
ROOFING TILES  
ACME CENTURY  
HANDMADE SANDFACED  
also  
ACME  
RED FLOOR QUARRIES

*For enduring beauty . . . specify*



# ACME

## CLAY ROOFING TILES

G. H. DOWNING & CO. LTD., DEPT C1, BRAMPTON HILL, NEWCASTLE-UNDER-LYME, STAFFS.

*Telephone: Newcastle-Under-Lyme 65381*

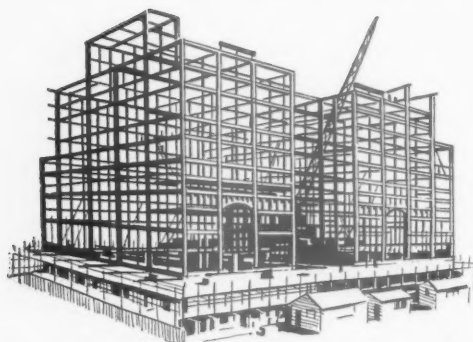
L.G.B.



## Experience counts...

The more difficult the assignment the greater the necessity for clear thinking, with everything under control and no panic measures. Experience—a threadbare word to which even the novice nowadays lays claim—means, with us, being born in the business and growing up with it. Buildings large and small all over the country are the only real evidence of experience that counts.

## RUBERY OWEN



a name in

### STRUCTURAL STEELWORK

- DESIGN
- FABRICATION
- ERECTION

RUBERY, OWEN & CO. LTD., DARLASTON, SOUTH STAFFS

Service Bureaux at London, Birmingham, Coventry, Southampton







*Distinctive as*

**GLOSSEX**

*Finishes*

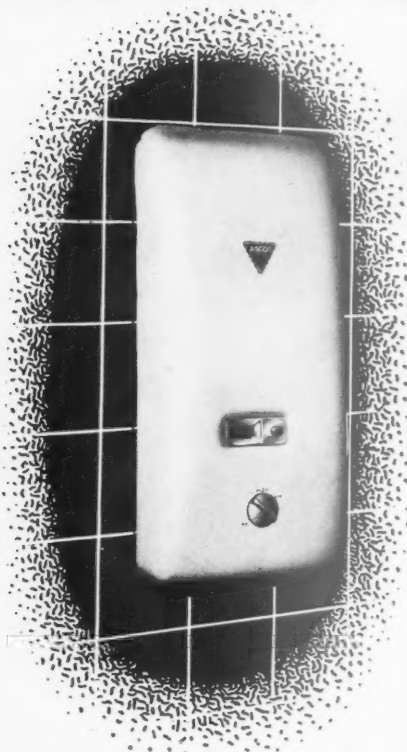


**VULCAN PRODUCTS LIMITED**

*Specialist Paint Manufacturers*

SLOUGH AND 24 RYDER STREET, ST JAMES, LONDON, SW1, TRAFALGAR 4161 (7 LINES)

# ASCOT PRODUCE FIRST BALANCED FLUE WATER HEATER



## Particular advantages of the Ascot 715

1. Combustion chamber and flue sealed from the room. Vitiating of air in the room is absolutely impossible. No down-draughts.
2. Handsome but unobtrusive. Projects only 5 inches. No visible flue.
3. Can be fitted in a cupboard without regard to ventilation.
4. Ideal for multi-storied buildings. Can be installed on any outside wall even though the terminal may be in proximity to overhanging, or other projections.
5. Installation is simple. Full advantage can be taken of service ducts.
6. Smooth contours and hard enamel make cleaning easy. No crevices or dust traps. Particles cannot drop from the heater.

**Supplies.** As many municipalities have specified the 715 for their housing projects the needs of new buildings must have priority.

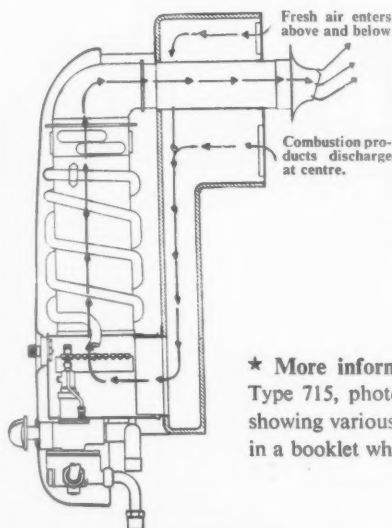


The new Ascot 715 multipoint is the first balanced flue gas water heater to go into production anywhere in the world. Once again Ascot leads the way! Once again Ascot helps the gas industry to maintain the position of gas as the best and most economical fuel for providing an instant, endless supply of hot water!

THE NEW ASCOT 715 is fundamentally different from any other water heater. The combustion chamber and flue are sealed off from the room in

which the heater is installed. Enclosed ducts draw air to burn the gas from outside the building and carry away all the products of combustion.

A FULL INSTANTANEOUS MULTIPOINT SERVICE similar to that of the popular Ascot 709 is given by the 715. It also has a stainless steel burner which has proved so successful in resisting corrosion and maintaining a high standard of efficiency.



The terminal can be fitted even in proximity to overhanging, or other projections. There is no flue pipe or cowl.

★ **More information.** A detailed explanation of the Type 715, photographs, a specification and drawings showing various methods of installation, are contained in a booklet which will be sent on request.

ASCOT GAS WATER HEATERS LTD., 43 Park Street, London, W.1. Grosvenor 4491

er  
in  
o  
or

d  
n  
y

o  
ss  
d

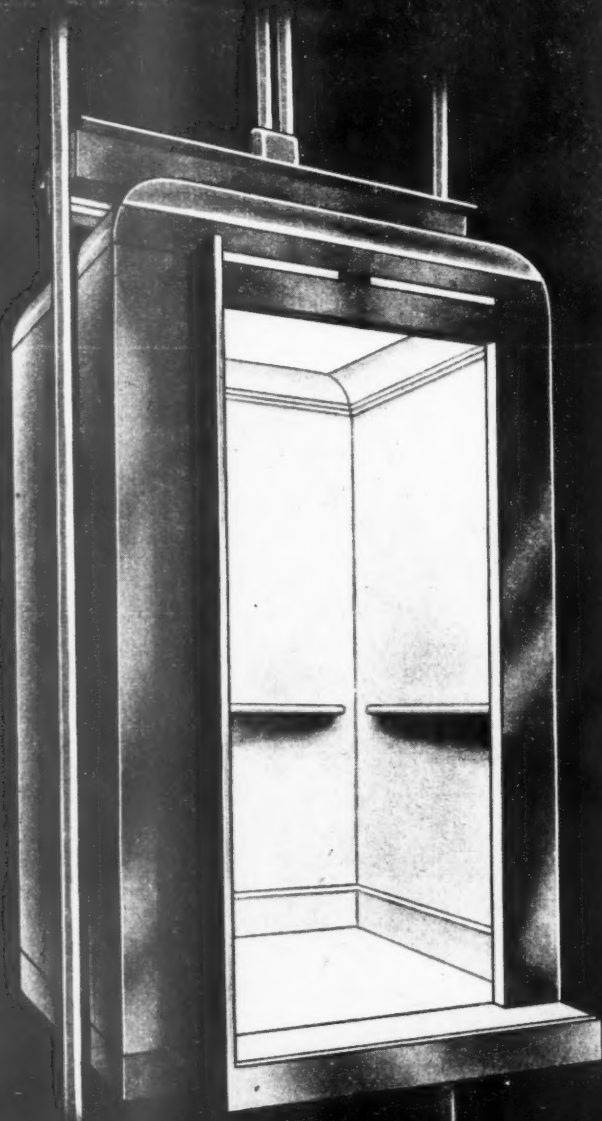
to  
no

ne  
gs  
ed

91





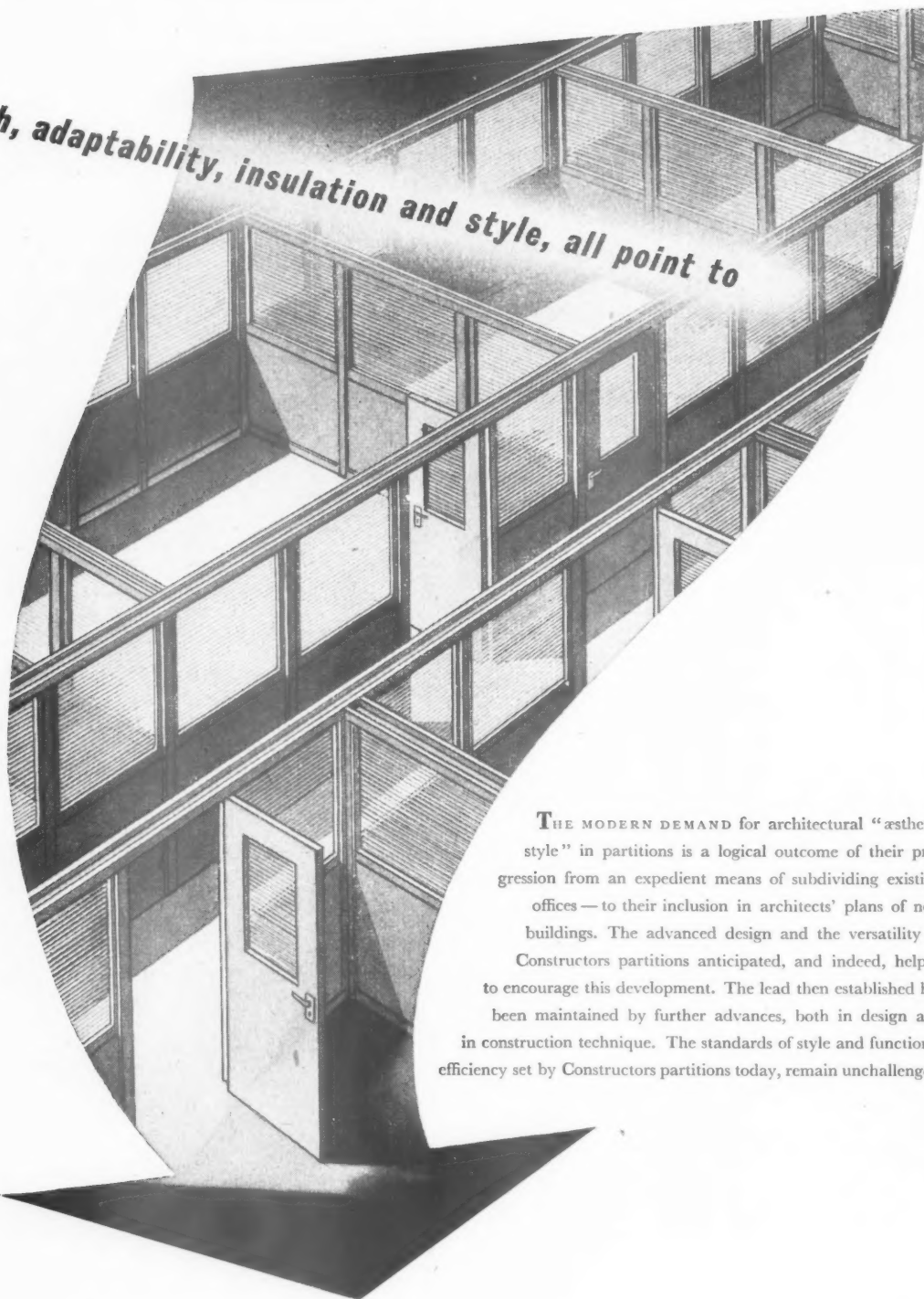


*Lifts*  
*by*

**PORN & DUNWOODY**  
**(LIFTS) LIMITED**

UNION WORKS • BEAR GARDENS • LONDON • S.E.1

*strength, adaptability, insulation and style, all point to*



THE MODERN DEMAND for architectural "aesthetic style" in partitions is a logical outcome of their progression from an expedient means of subdividing existing offices—to their inclusion in architects' plans of new buildings. The advanced design and the versatility of Constructors partitions anticipated, and indeed, helped to encourage this development. The lead then established has been maintained by further advances, both in design and in construction technique. The standards of style and functional efficiency set by Constructors partitions today, remain unchallenged.

**CONSTRUCTORS** *Craftsmanship*

Regd. Trade Mark

**IN STEEL EQUIPMENT FOR OFFICE AND FACTORY**

Issued by Constructors Group, Tyburn Rd., Birmingham 24. Tel. ERDington 1616. London Office: 98 Park Lane, W.1. Tel. GROsvenor 5656 & MAYfair 3074.  
Manchester Office: 42 Byrom St., Manchester 3. Tel. Blackfriars 2875. Leeds Office: 1A, Upper Mill Hill, Boar Lane. Tel. Leeds 28017.

Whatever  
your  
**PLANS**  
include...



# METAL WINDOWS

*The Hall Mark  
of Craftsmanship*

*A product of  
England's Largest Glazing Contractors*

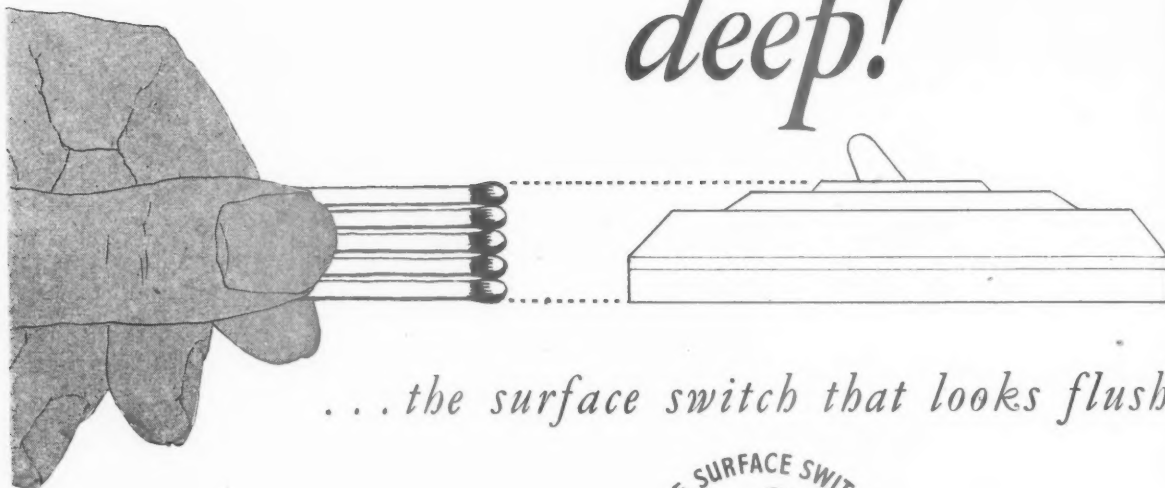
*Issued by the Metal window division of*

**AYGEE**  
LIMITED

Head Office: 100 WESTMINSTER BRIDGE RD., LONDON, S.E.1. 'Phone: WATerloo 6314 (10 lines)

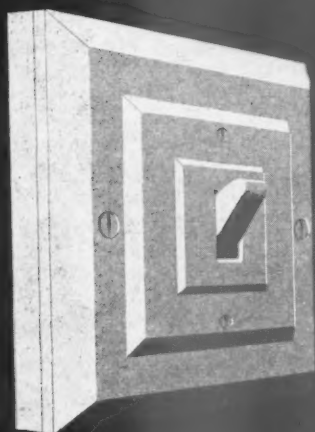
Branch Works: AINTREE ROAD, PERIVALE, MIDDX. 'Phone: PERivale 6211 (6 lines)

*only* **5** matches  
*deep!*



*...the surface switch that looks flush*

THE SURFACE SWITCH  
**SURFLUSH**  
THAT LOOKS FLUSH



MEETS ALL THE REQUIREMENTS OF 404 J  
(12 ED. WIRING RULES)

The **SURFLUSH** switch  
A/C ONLY  
cuts fixing costs

See it at the B.I.F. Stand C.609

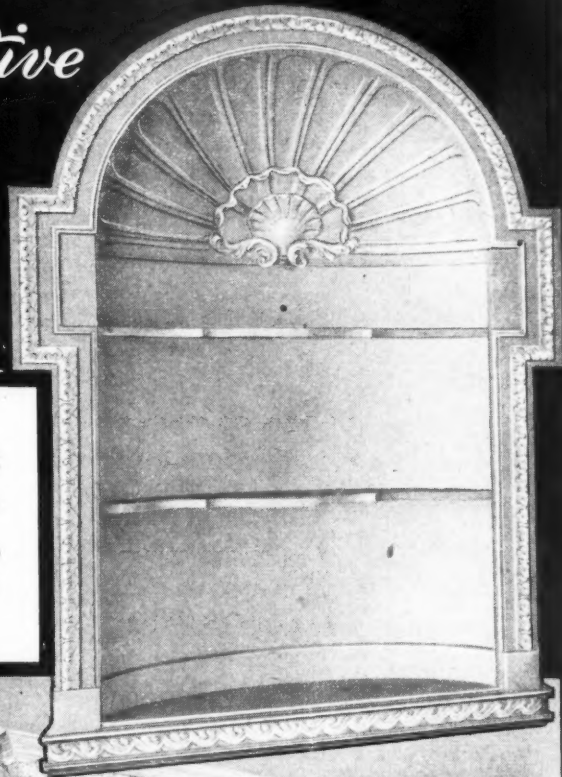
**FALKS**  
FALK, STADELMANN & CO. LTD

91, FARRINGTON ROAD, LONDON, E.C.1 and BRANCHES



# *Permanent Decorative Features Pre-cast* in **FIBROUS PLASTER**

ARCHITECTS WILL APPRECIATE  
our modern application of this ancient craft  
in producing a pleasing and permanent  
decoration suited to present day requirements,  
which can be carried out quickly and  
accurately to the Designer's specifications.



**JOHN KENT LONDON LTD**  
10·MELON ROAD·PECKHAM·S·E·15  
Telephone RODney 5522-3-4

Our experienced Technical Staff are at your service for advice,  
designs, and constructional information.

# COATED MACADAM

provides an ideal surface for  
Roads, Footpaths, Playgrounds, etc.

Consult  
**F. C. M. I.**

for names of Specialist Firms  
operating in your area

AS LAID AT THE FESTIVAL FUN FAIR



FEDERATION OF COATED  
MACADAM INDUSTRIES

Director: A. J. Lyddon, C.B.E., M.Inst.C.E.

37 CHESTER SQUARE, LONDON, S.W.1 • TELEPHONE: SLOANE 1002

## 5 ft. 3 ins. wide

"I'm an architect as you've probably guessed and with all this re-housing I'm in for a very busy time ! One of the most important materials these days is hardboard and as far as I am concerned I always specify Ahlström 'Five-Three'. That extra width they give you makes all the difference and saves time, timber, trouble AND money — which, after all, is vital in these days of economy. Amongst the infinite variety of uses I find these extra large boards ideal for concrete shuttering. Be sure to try Ahlström 'Five-Three' — the hardboard with the extra width."



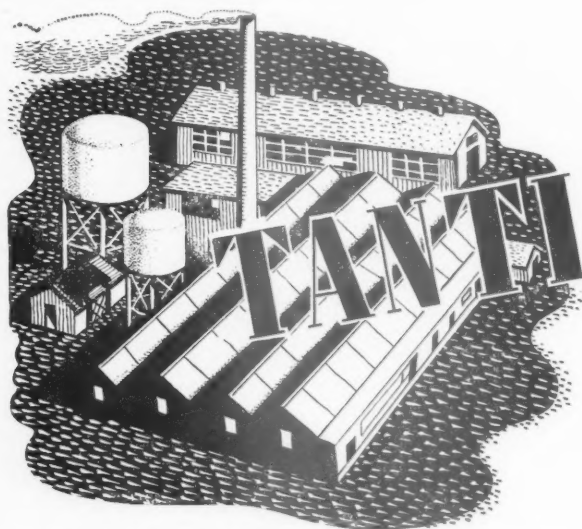
THE HARDBOARD WITH THE EXTRA WIDTH

**AHLSTRÖM**  
**FIVE-THREE**

Enquire from your local merchants or from

Plywood & Timber Products Agencies Ltd.,  
City-Gate House (East), Finsbury Square, E.C.2

Manufactured by A. AHLSTRÖM OSAKEYHTIÖ, FINLAND



TANTIRON, the registered trade name applied to our silicon iron castings was first cast and produced on a commercial scale by the Lennox Foundry Co. Ltd., before 1910, so we are well justified in our claim that it is the first—and still the best—high silicon acid resisting iron.

# TANTIRON

SILICON IRON CASTINGS

*approved*

FOR THE BUILDING OF  
CHEMICAL FIXTURES,  
LABORATORIES, ETC.  
where corrosion is encountered

by 

**LENNOX FOUNDRY CO. LTD.**

Tantiron Foundry, Glenville Grove, London, S.E.8.



# FLOORINGS

IN  
COLOURED ASPHALT  
OR  
DECORATIVE TILES

THE  
**LIMMER & TRINIDAD**

LAKE ASPHALT CO., LTD.  
STEEL HOUSE, TOTHILL ST., WESTMINSTER, LONDON, S.W.1  
TELEPHONE: WHITEHALL 6776





## Master Switches!

*"But", said the bright boy in the front row, "those are not 'master-switches.'"*  
*"Ob, yes they are", replied the Head, "all Temco Switches are master switches — masterpieces in switch making . . . now pay attention and you will learn why they are 'top class', too!"*

# TEMCO

## ELECTRICAL ACCESSORIES

*You will find our complete Accessories Catalogue very useful for quick reference. Let us send you a copy.*

\* Temco Switches are available in surface, semi-recessed and flush-fitting styles, embodying all the latest Temco advances which make for high efficiency, safety and long service. These switches can be supplied in various finishes — brown on white, all brown or all white.

Manufactured by: **TELEPHONE MANUFACTURING COMPANY LTD**

and Marketed by their Sales Organisation: **T.M.C.-HARWELL (SALES) LTD**

37 UPPER BERKELEY STREET, LONDON, W.1

Telephone: PAdddington 1867/8/9

## BRIDGEND PAPER MILLS

GLAMORGAN

*Architects: Henry Budgen & Co., Cardiff*

*Contractors: G. Percy Trentham Ltd., Cardiff*

### SEMASTIC DECORATIVE TILES

*in the office, canteens and corridors were supplied and laid by*

## SEMTEX LTD

A DUNLOP COMPANY

COMPREHENSIVE FLOORING SERVICE

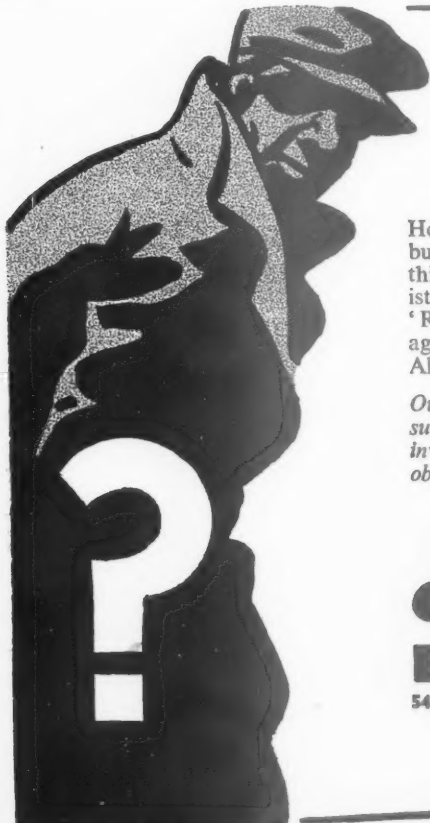
Head Office: 185-7-9 Finchley Road, London, N.W.3

Telephone: Maida Vale 6070

Telegrams: Semtex, Haver, London



258/C.12.E.T.U.



### ARE YOUR CLIENTS' STOCKS ADEQUATELY PROTECTED AGAINST BURGLARY?

Houses, factories, shops and offices, however well designed and built are **INCOMPLETE** without protection against the modern thief. 'Rely-a-Bell' are Britain's leading Burglar Alarm Specialists and their range of tried and tested devices includes: the new 'Rely-999'; Central Station Alarm; 'Rely-Ex' Security System against smash-and-grab; Open and Closed circuit alarms; Bandit Alarms and Grilles for shops, bars, nurseries and homes.

*Our technical advisers are ready to co-operate with you in designing suitable installations for every type of job—big or small. You are invited to write Dept. A.J. for full details free of cost and without obligation.*

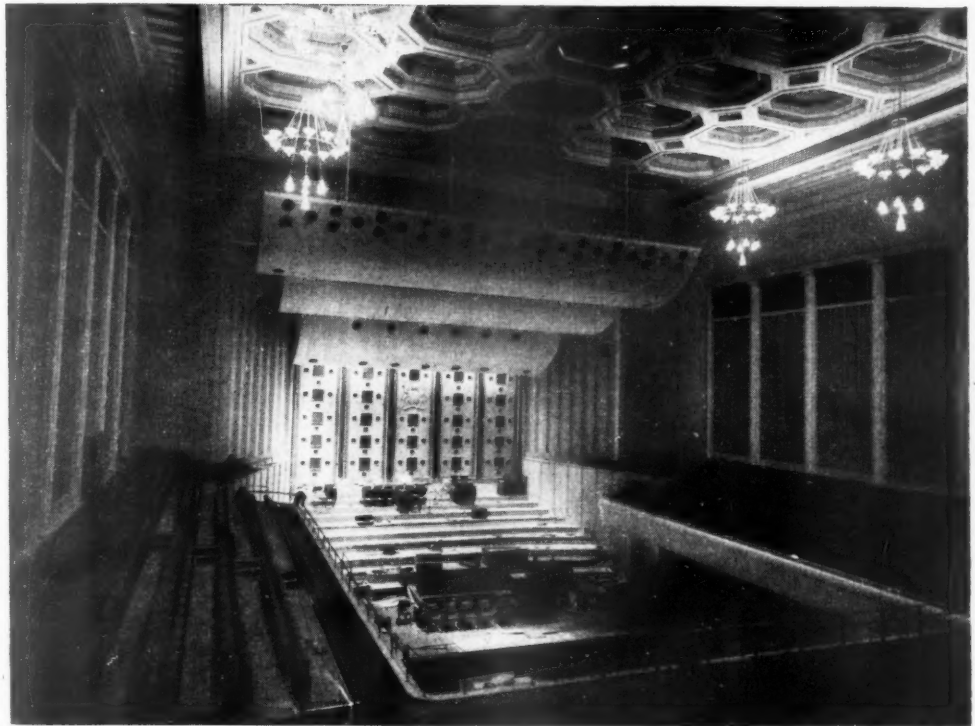
# Rely-a-Bell

**BURGLAR & FIRE ALARM CO. LTD.**

54, WILSON STREET, (FINSBURY SQUARE,) LONDON, E.C.2.

Telephone: BISHopsgate 1955 (4 lines)

T68A



Architect: Leonard C. Howlt;  
B.Arch., F.R.I.B.A., City Architect  
General Contractors for the rebuilding of the Free Trade Hall:—  
J. Gerrard & Sons Ltd.

Photo: Manchester Guardian

# and now a **BAFFLE** is *'Tanalised'*

There are still so many uses for wood in modern constructions. The Free Trade Hall, Manchester is a good example of post-war permanent architecture in which all woodwork has been "Tanalised," including the Stage and Baffle. Lasting protection is thus afforded from the attack of Fungal Decay and Insects.

**Sound Timber for a Sound Purpose!**



**HICKSON'S TIMBER IMPREGNATION CO. (G.B.) LIMITED**

Head Office: Castleford, Yorks., Castleford 2607/9    London Office: 36 Victoria Street, S.W.1., ABBey 1477/8  
Members of the British Wood Preserving Association



A number of books covering the many uses of copper are available, without charge, including "Copper Flashings and Weatherings" and "Copper Pipe-Line Services in Building". A copy of any of these will be sent on request.

## Getting the best out of COPPER

Copper and copper alloys can be wasted as easily by wrong use as by extravagance. Any information about their use in building can be obtained free of charge or obligation from the C.D.A. The Association provides expert advice and technical data to enable the best and most efficient use to be made of these materials. It pays to consult the C.D.A. at an early stage of any project.







## Their new home's a health resort!

Once they lived in a 'cold' house which echoed with 'atishoos'. But they've moved since then . . . moved with the times, too. Now they've got Radiation ducted air spreading its kindly health-giving warmth through every room and every passage. Such a simple system it is . . . easy to install . . . wonderfully convenient, *and house-warmth can always be regulated to meet the needs of the day and hour.*

The Radiation system may be installed with either a fully automatic gas unit, or an automatic solid fuel unit, which burns without smoke any solid fuel, including bituminous coal. Architects, housing authorities and others—especially those interested in smoke abatement—should write for literature explaining the system which is now in use all over the

country and has been installed by many local authorities. Visits are also invited to the demonstration houses at Stanmore, where both solid fuel and gas installations may be seen in action. But please apply first for an appointment to Radiation Group Sales Limited, Lancelot Works, Wembley, Middlesex. Telephone: Wembley 6221.

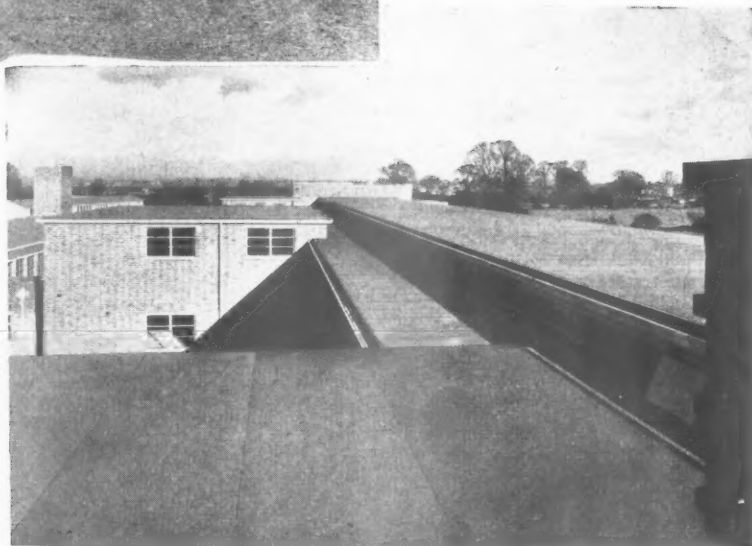


Include **Whole-house Warming**  
by **Radiation** ducted air in *your* plan

**1" KISOL** equals  
thermal insulation  
value of  
**15" ORDINARY  
CONCRETE**



*KISOL Vermiculite ready mixed  
screed being applied to the roof of  
Gabalfa School, Cardiff.*



*Roof of Hanbridge School, Chester  
screeded and completed with KISOL  
Vermiculite.*

KISOL Vermiculite screeds can be laid to falls over all types of roof structure. One inch has the equivalent insulating value of 15 inches of ordinary concrete. No wonder architects and builders are finding this versatile insulating material of great advantage in building construction, solving many problems such as reducing dead weight load on structures. And what is more, KISOL Vermiculite is a non-conductor of electricity, highly acid-resisting, fungus proof and odourless.

Facts, figures and the many uses of KISOL are described and illustrated in our brochure—FREE on application.

**WILLIAM KENYON & SONS LIMITED**  
INSULATION ENGINEERS  
DUKINFIELD CHESHIRE

V12

*It's a good job-it's*  
**ROBBIALAC**



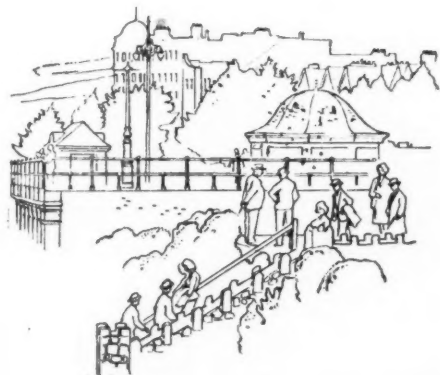
Clacton-on-Sea is one of the most popular holiday resorts on the East Coast, and is noted for its attractive promenade and pier. There must be very many miles of railings along the front, all of which are painted with Robbialac . . . . to ensure a gay appearance combined with lasting protection against sea air, sunshine and weather.

*Robbialac Paints are also used on hotels and hostels, cinemas and casinos—in resorts all over the British Isles. Full details, colour cards and specifications are available on request.*

**JENSON & NICHOLSON LTD**

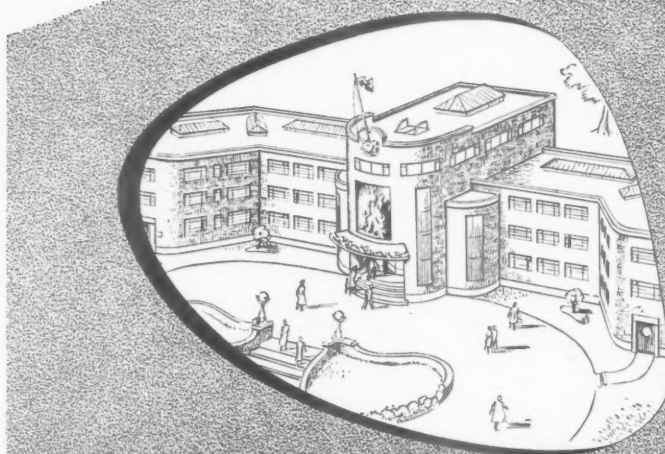
*(Makers of Robbialac Paints and Industrial Finishes)*

Jenson House, Carpenter's Road, Stratford, London, E,15



# PLIMBERITE

FOR  
PARTITIONING  
PANELLING  
WALL LINING  
SUSPENDED FLOORING  
ROOF DECKING  
PANEL DOORS  
SHELVING  
SKIRTING  
BUILT-IN FURNITURE  
VENEER CORE



PLIMBERITE is an interior constructional material sufficiently versatile to fulfil the demands of both architects and contractors. Manufactured from pulverised wood chips bonded with synthetic resin under heat and pressure to a density of 50 lbs/cu. ft., PLIMBERITE is produced to specification in the standard size of 8' x 4' and in thicknesses of  $\frac{1}{2}$ " and  $\frac{3}{4}$ ".

PLIMBERITE can be worked with standard tools and may be painted in the usual way. If desired the specifications for various finishes will be supplied. Moisture movement and load tests carried out by the Department of Scientific and Industrial Research prove the stability and strength of PLIMBERITE. Reports on these tests are available from



**BRITISH PLIMBER LIMITED**

20 ALBERT EMBANKMENT • LONDON • S.E.11 • RELiance 4242

*from whom may be obtained technical literature and the name of the nearest supplier*









*Featherweight*

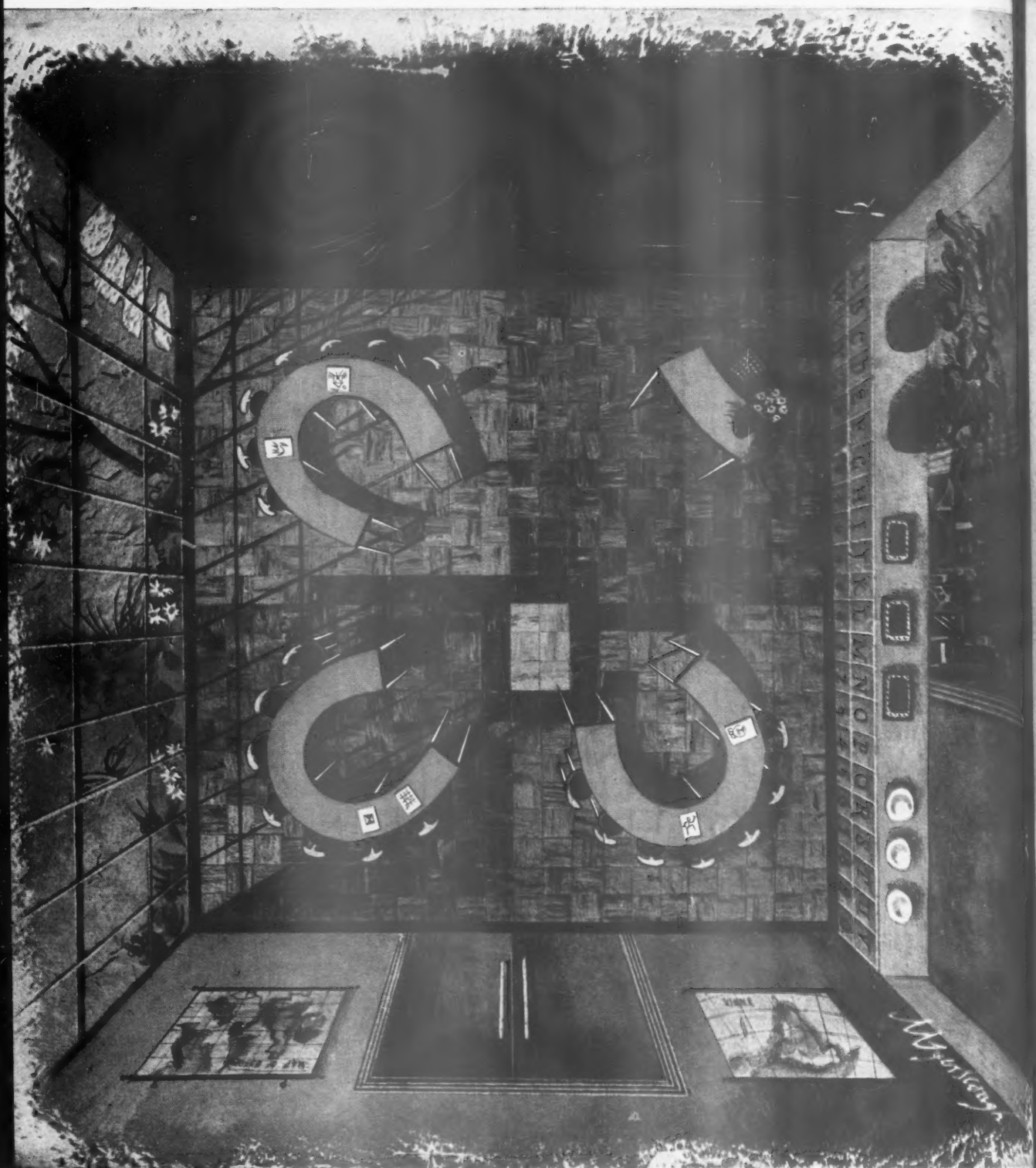
# NORAL ALLOYS

Northern Aluminium COMPANY LIMITED

Makers of NORAL SHEET, STRIP, PLATE,  
SECTIONS, TUBING, WIRE, FORGINGS,  
CASTINGS, ALPASTE FOR PAINT

*Sales Development Division* : BANBURY, OXON

*Sales Offices* : LONDON, BIRMINGHAM, MANCHESTER,  
BRISTOL, NEWCASTLE UPON TYNE, LEEDS



*Design for a Nursery Schoolroom. From the original Collage by R. Myerscough-Walker*

The modern Nursery Schoolroom calls for comfort and colour. The floor must also stand hard wear and constant cleaning. It must be hygienic and waterproof, yet warm and not tiring to young feet. In this unusual design, Marley floor tiles have been used to provide an inexpensive solution to all these problems.

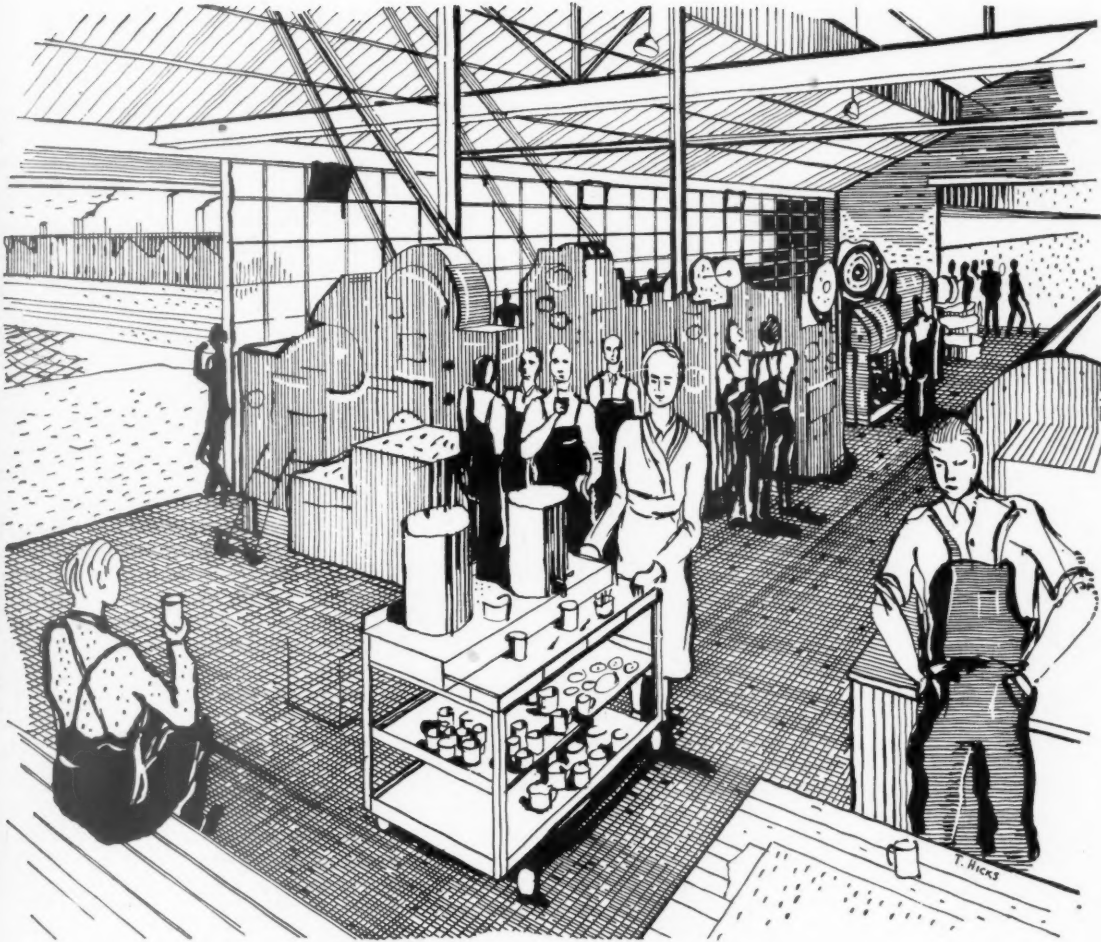


*Cock o' the walk*

*The Marley Tile Co. Ltd., London Rd., Riverhead, Sevenoaks, Kent. Sevenoaks 2251-6*

**MARLEY**





## GAS and the Factory tea bar

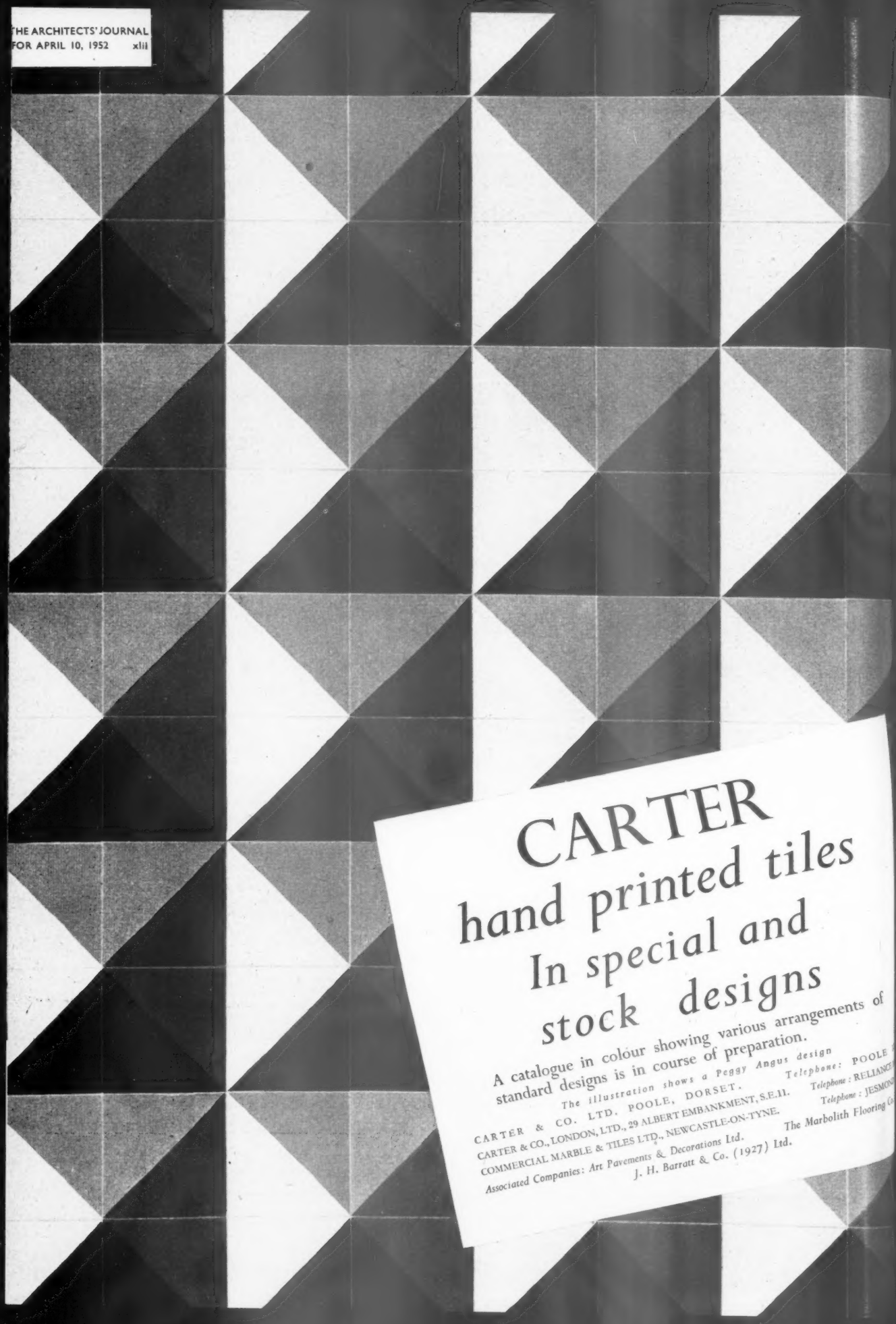
Before an industrial catering and tea service can be brought into being, someone has to weigh up what special needs have to be catered for, what type of service and accommodation is to be provided, what should be the scope of the menu, and how a smooth flow of operations can be ensured. In addition to providing the source of energy for cooking, water heating and refrigeration, local Gas Undertakings are competent to advise on these and other problems which must be solved if catering is to be efficient. They do so willingly, when consulted, because they believe that is the best way to ensure, in the Nation's interest, that gas is used economically and wisely.

*Helpful information on the many aspects of providing efficient services for cooking, hot water, space heating and refrigeration for all types of buildings may be obtained from local Gas Undertakings.*

# GAS

ISSUED BY THE GAS COUNCIL, 1, GROSVENOR PLACE, LONDON, S.W.1 TELEPHONE: SLOANE 4554

GCI0



# CARTER

hand printed tiles  
In special and  
stock designs

A catalogue in colour showing various arrangements of  
standard designs is in course of preparation.

The illustration shows a Peggy Angus design  
CARTER & CO. LTD. POOLE, DORSET. Telephone: POOLE  
CARTER & CO., LONDON, LTD., 29 ALBERT EMBANKMENT, S.E.11. Telephone: RELIANCE  
COMMERCIAL MARBLE & TILES LTD., NEWCASTLE-ON-TYNE. Telephone: JESMOND  
Associated Companies: Art Pavements & Decorations Ltd.  
J. H. Barratt & Co. (1927) Ltd. The Marbolith Flooring Co.

# DE LANK CORNISH GRANITE



De Lank Granite being used in the construction of the South Bank river wall.

(Photograph by the courtesy of Richard Costain Ltd.)

*for* BRIDGES · PIERS · DOCKS  
SEAWALLS and other  
CIVIL ENGINEERING WORKS

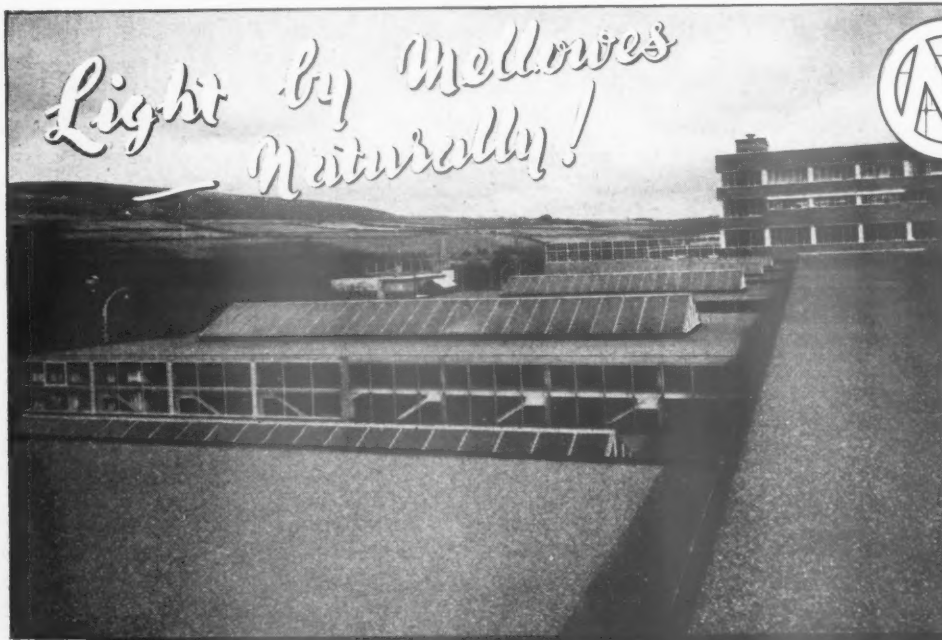
**CORNISH DE LANK GRANITE QUARRIES CO**

PROPRIETORS · THOS W. WARD · LTD

**ALBION WORKS · SHEFFIELD**

QUARRIES: DE LANK · ST BREWARD · CORNWALL





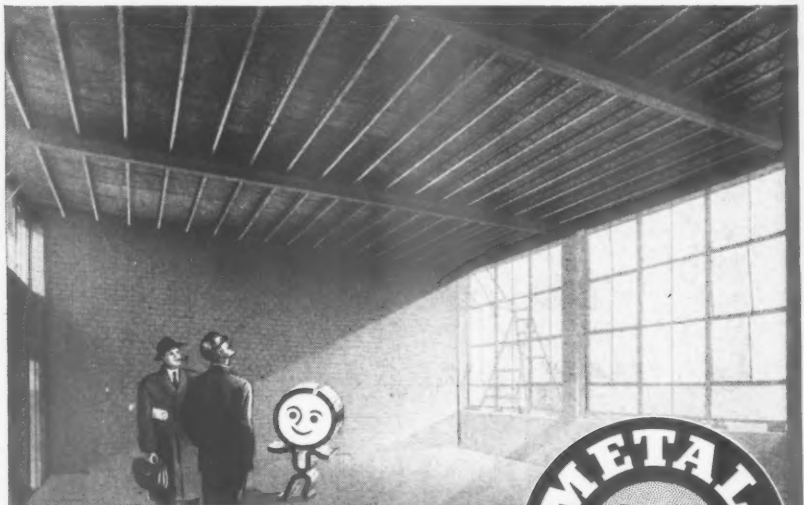
"ECLIPSE"  
ROOFLIGHTS AND  
VERTICAL PATENT  
GLAZING

BRIDGEND PAPER  
MILLS

Architects  
Henry Budgen & Co.,  
F.R.I.B.A., Cardiff.

**MELLOWES & Co LTD**  
LONDON SHEFFIELD OLDHAM

**\*\* These  
open web  
nailer joists  
reach your  
job ready  
for placing  
... WITHOUT  
CUTTING OR  
FITTING !**



*Solihull, Lyndon Secondary School. Architects: Rolf Hellberg, F.R.I.B.A. in collaboration with C. H. Elkins, F.R.I.B.A., F.R.I.C.S., County Architect, Warwick*

Ideal for Roof & Floor construction in houses, school buildings and similar types of structures, because of these 3 very good reasons. (1) **SPEED**... Simple site erection. (2) **ECONOMY**... saving of manhours, timber and transport. (3) **TIME**... they arrive ready for placing and the open web permits unobstructed passage for pipes, etc.



Why not write to-day for full particulars to:

**METAL SECTIONS LTD., OLDBURY, BIRMINGHAM. Tel: BR0adwell 1461**

MEMBER OF THE COLD ROLLED SECTIONS ASSOC.





# KINNEAR PATENT STEEL ROLLING SHUTTERS

Registered  
KINNEAR  
Trade Mark



Architect: S. S. Proud, Esq., Uttoxeter

**Messrs. A. J. Fryer & Co., Uttoxeter**

**Garage and Service Station fitted with 3 Kinnear Shutters in 1927**

*Shutter illustrated is 12' 0" high by 11' 4" wide*

Sole Manufacturers:

**ARTHUR L. GIBSON & CO LTD**

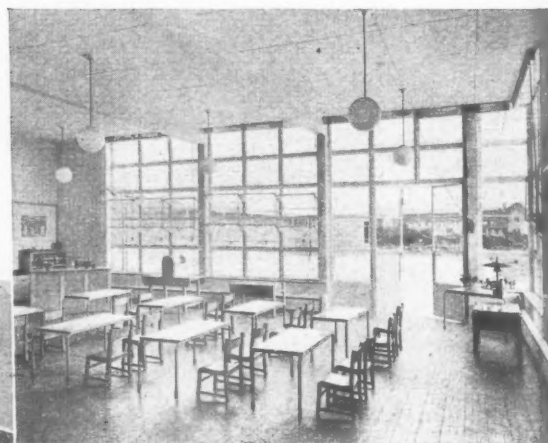
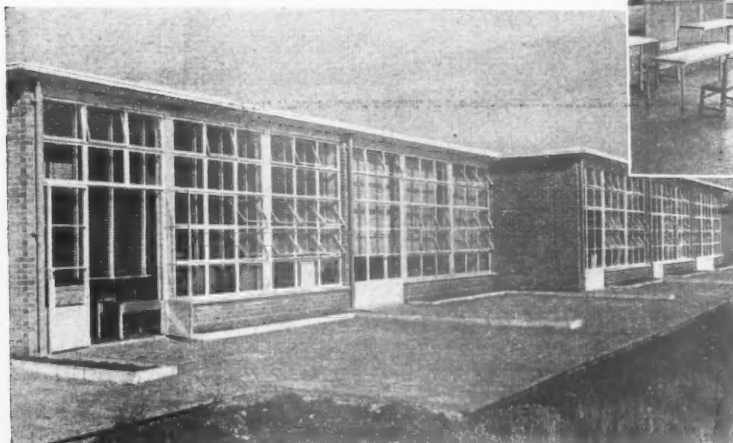
Branch Offices:-**Birmingham:** 136, Yarnoldale Road Highbury 2804 **Manchester:** 79, Piccadilly Central 1008 **Glasgow:** Lister Road, Hillingdon Halfway 2928

Head Office:  
Radnor Works-Twickenham.  
Telegrams: "Shannies Twickenham"  
Telephone: Popesgrove 2276



THE MORRIS SINGER COMPANY LTD.  
SPECIALISTS IN THE MANUFACTURE OF BEST QUALITY  
PURPOSE MADE METAL WINDOWS

The Morris Singer purpose-made metal window division  
is long established and the accumulative experience  
combined with first-class drawing office  
and manufacturing resources can remove a great load  
of detailing from the architect's drawing board.

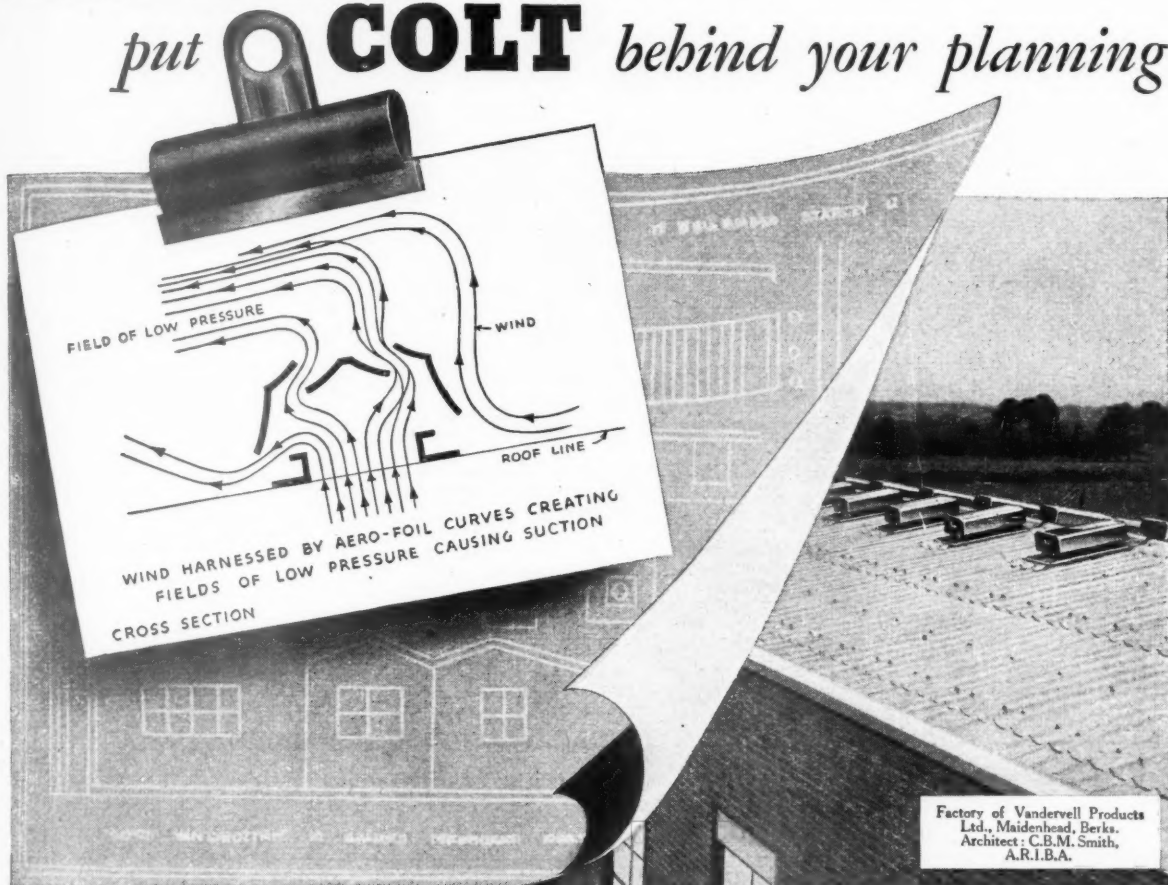


SOUTH KINSON SCHOOL  
BOURNEMOUTH

Architects:  
*Ronald Phillips & Partners, F/ARIBA*  
*Bush House, 15 Christchurch Road*  
*Bournemouth*

The MORRIS SINGER COMPANY Ltd., FERRY LANE WORKS, FOREST ROAD, WALTHAMSTOW, E.17. Telephone: Larkwood 1055

# RIGHT *from the start . . .* put **COLT** *behind your planning*



The Colt organisation has the science of ventilation at its finger-tips—from the first principles, down to a highly specialised knowledge of air induction and extraction under every type of atmospheric condition. When you are drawing-up plans, and while your ideas are still fluid, come to us with any ventilation problems you may have. We shall be glad to help you: and without any obligation, naturally.

**A FREE MANUAL** with full specifications of the types of standard Colt Ventilators is available on request from Dept. A.2/152.

THE COLT S.R. VENTILATOR, illustrated above, is designed on aerodynamic principles embodying aero-foil curves that prevent the elements from interfering with the escape of the hot vitiated air which rises through the ventilator in accordance with the Laws of Convection.

Furthermore, these aero-foil curves assist this natural process by harnessing the free power of the wind and roof eddies, no matter from which direction they come, creating a suction which can produce a power of extraction equal to that of mechanical means without the drawbacks of noise, wearing parts or operating and maintenance costs.

These aero-foil curves have been so designed as to give a flat curve of extraction to prevent extraction from becoming excessive with the high winds of winter.

Just one example of the many types of ventilation that Colt have planned or carried out for over 4,000 prominent firms throughout the country.

## COLT VENTILATION

INDUSTRIAL AND DOMESTIC

Colt Ventilation Ltd., Surbiton, Surrey. ELMbridge 6511-5

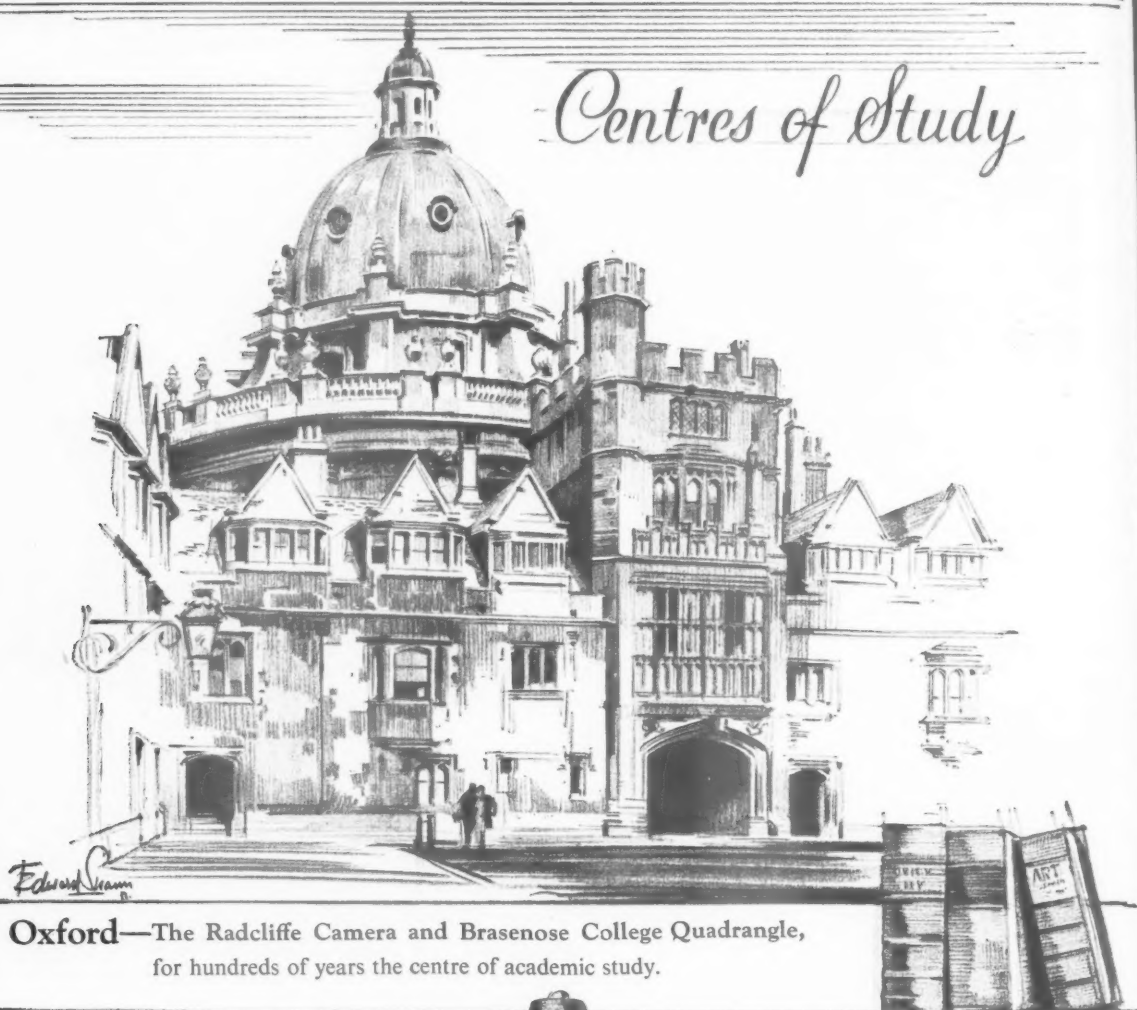
Also at Birmingham, Bradford, Bristol, Kilmarnock, Manchester, Newcastle, Newport (Mon.) and Sheffield



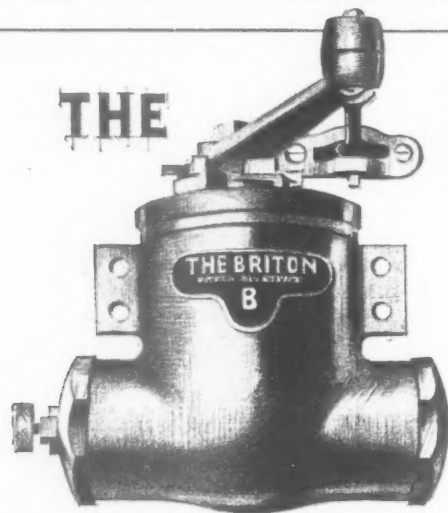
SEE COLT ABOUT VENTILATION—WHATEVER YOU DO

A.2

## *Centres of Study*



Oxford—The Radcliffe Camera and Brasenose College Quadrangle,  
for hundreds of years the centre of academic study.



THE

BRITON

DOOR CLOSER

SPECIFIED by  
leading architects.

**WILLIAM NEWMAN & SONS Ltd**  
*Hospital Street, BIRMINGHAM 19. Established over 200 years*





The standing of any product in its class depends on many things, but on none so important as those instantly reflected in the article itself . . . appearance, workmanship and efficiency. These qualities are immediately evident in all Britmac components and establish their position at the head of their class.

the points in favour . . .



ILLUSTRATIONS: 5 amp., Ironclad switch units, Industrial type. Finished black enamelled with nickel plated dollies, bridges and lid fixing screws. Catalogue Numbers P.1540 (Flat lid) and P.1552 (fully protected lid). Available in 5 amp. up to 25 way; 15 amp. up to 12 way; with shallow or deep type boxes.

. . . at every point — "BRITMAC"

**BRITMAC ELECTRICAL CO. LTD**

SALES ORGANISATION OF C. H. PARSONS LTD

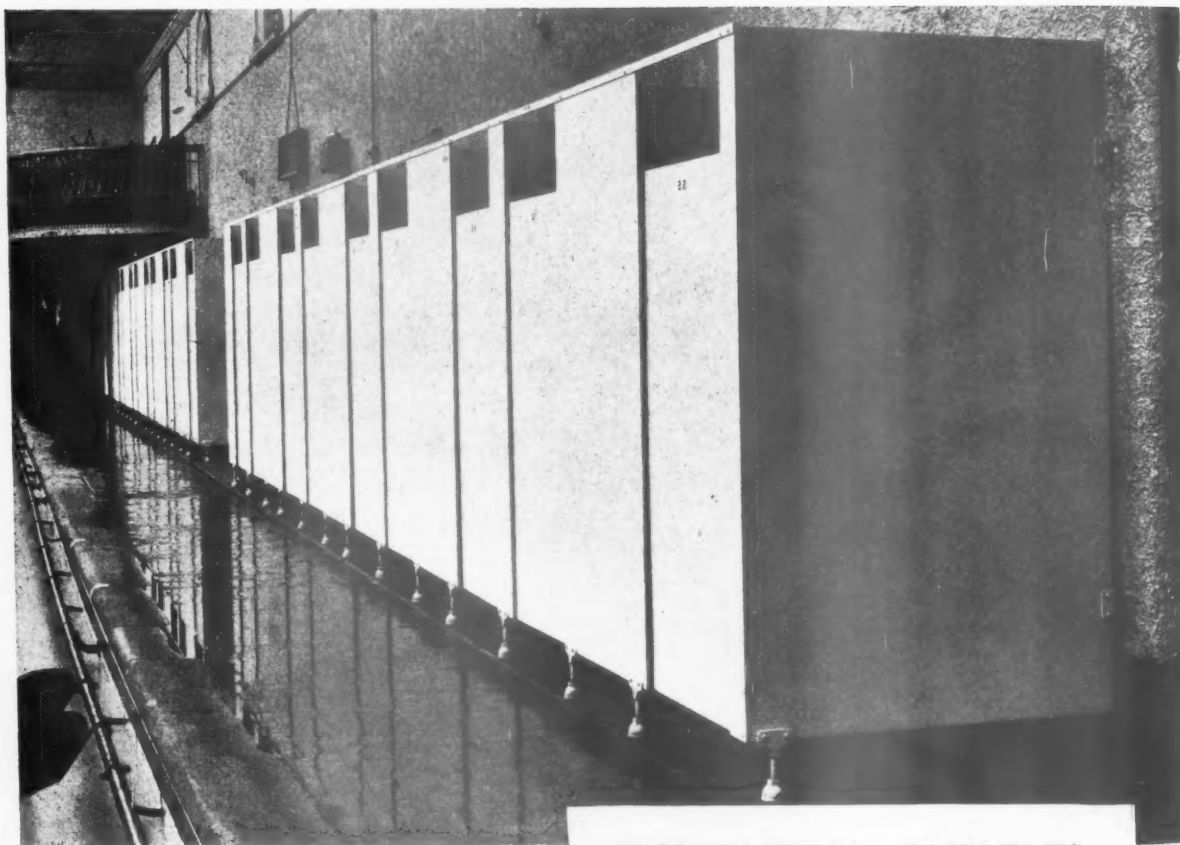
HEAD OFFICE • BRITANNIA WORKS • WHARF DALE ROAD • TYSELEY • BIRMINGHAM • 11

Telephone: ACOCKS GREEN 1191 (3 lines) • Telegrams: "BRITMAC, BIRMINGHAM"

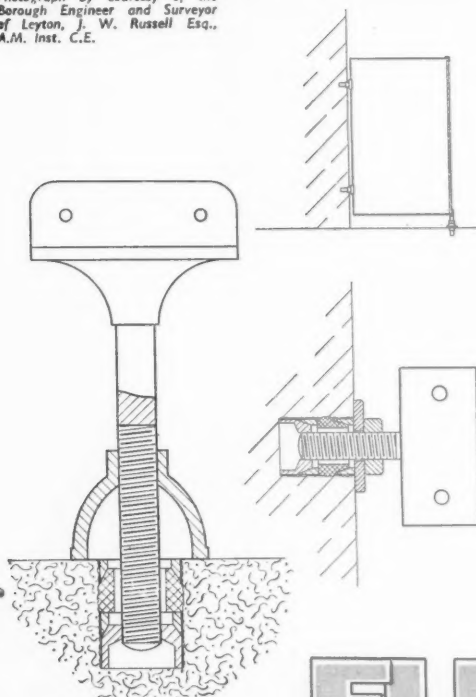
London Office:  
121, VICTORIA ST., S.W.1  
Telephone: VICTORIA 9778/9

Glasgow Office:  
247a, ST. VINCENT ST., &  
93, DOUGLAS ST., C.2  
Telegrams: CENTRAL 3445/6

SM/BE. 313a



Photograph by courtesy of the  
Borough Engineer and Surveyor  
of Leyton, J. W. Russell Esq.,  
A.M. Inst. C.E.



## FLEXOMETAL CUBICLES

As is well known, Flexometal cubicles are hygienic and light, they save a lot of space owing to being thin, yet rigid.

This installation is at the Cathall Road Baths, Leyton, and is of particular interest because the cubicles are demountable by undoing the special "Cinch bolt" shown.

FLEXO PLYWOOD INDUSTRIES LTD.  
SOUTH CHINGFORD, LONDON, E.4  
Telephone: Silverthorn 2666 (7 lines)  
(Associated with Cork Manufacturing Co. Ltd.)

# FLEXOMETAL



THE ARCHITECTS' JOURNAL

No. 2980 April 10, 1952 VOL 115

EDITORIAL BOARD: (1) *Consulting Editor*, F. R. Yerbury, Hon. A.R.I.B.A. (2) *Town Planning Editor*, Dr. Thomas Sharp, L.R.I.B.A., P.P.T.P.I. (3) *House Editor*, J. M. Richards, A.R.I.B.A. (4) *Technical Editor*, R. Fitzmaurice, B.Sc., M.I.C.E., Hon. A.R.I.B.A. (5) *Editor Information Sheets*, Cotterell Butler, A.R.I.B.A. (6) *Editorial Director*, H. de C. Hastings.

GUEST EDITORS: (7) Robert Gardner-Medwin, F.R.I.B.A., M.T.P.I.; Donald Gibson, C.B.E., M.A., A.R.I.B.A., M.T.P.I.; S. A. W. Johnson-Marshall, A.R.I.B.A.; Robert H. Matthew, C.B.E., A.R.I.B.A.

SPECIALIST EDITORS\*: (8) Planning (9) Practice (10) Surveying and Specification (11) Materials (12) General Construction (13) Structural Engineering (14) Sound Insulation and Acoustics (15) Heating and Ventilation (16) Lighting (17) Sanitation (18) Legal.

ASSISTANT EDITORS: (19) *Chief Assistant Editor*, D. A. C. A. Boyne, (20) *Assistant Editor*, K. J. Robinson, (21) *Assistant Editor* (Buildings), L. F. R. Jones, (22) *Assistant Editor* (News), M. B. Farr, (23) *Assistant Editor* (Information Sheets), E. G. Johnson, (24) *Assistant Technical Editor*, M. Jay, (25) *Photographic Department*, E. R. H. Read, H. de Burgh Galwey, (26) *Editorial Secretary*, Rachael Tower

\* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

9, 11 & 13 Queen Anne's Gate, Westminster, London, S.W.1 Whitehall 0611

Subscription rates: by post in the U.K. or abroad, £2 10s. 0d. per annum. Single copies, 1s.; post free, 1s. 3d. Special numbers are included in Subscriptions: single copies, 2s.; post free, 2s. 3d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for 25s. 0d.; carriage, 1s. extra.



## BEDFORD SQUARE DANCE

The AA annual reception has a character all its own—extraordinarily different from the RIBA reception, though each is an agreeable occasion of its kind. In Bedford Square, as is appropriate to the less formal body, there are fewer ashtrays hung round plump but elderly necks; more high spirits and a more lively round of entertainments. Youth still seems to be at the helm, though on Thursday there was a large number, too, of relatively elderly gentlemen like ASTRAGAL who recall with nostalgia the old days when this event was known as the *conversazione* because they are now too stiff in the joints to do much except talk.

This year the side-shows were up to the best standard, with specially high

marks given to the uniforms of the Royal Artillery band, the display of books about Eastern architecture in the library, the decorations of the bar in the basement, and the beautifully presented exhibition upstairs of AA and RCA students' work. Anthony Chitty was a suave and hospitable host. There is nothing more to say that ASTRAGAL didn't say last year and the year before and the year before that. And who would have it otherwise?

## AMERICAN ARCHITECTURE

So much of the talk about architecture in the Press and over the air takes the form of generalization that it was a great pleasure to listen to Ian McCallum's talk last week, analysing and criticizing a particular building in real detail. Because getting down to brass tacks (or in this case planning grids and aluminium wall-frames) is clearly the right way of arousing interest in buildings.

\*

The public is much more ready to listen to technical matters than it is generally given credit for—and much more capable of understanding them. Witness its ready connoisseurship of motor-cars and radio-sets, a connoisseurship based on considerable technical understanding. McCallum ran over the points of the UN Secretariat much as one might those of a new make of car—analysing its design and assessing its performance. It must have made a lot of listeners realize for the first time how exciting a subject architecture can be, regarded simply as the application of imagination to the resources of science.

\*

Let us have more talks as realistic as well as perceptive as this one. It may be that in England we haven't many

modern buildings yet that deserve such close-range attention as the UN Secretariat. On the other hand, discussion of architecture that treats the public as adult is one way to get them.

## WORK FOR THE ARCHITECT?

No comment seems to have been aroused by the MOH & LG circular 28/52 which, briefly, recommends local authorities to use more non-traditional houses, and offers an increased housing allocation to those who do. Just a few more houses, one imagines, that the architect won't be asked to design, though, presumably, we may still be able to have a hand in the layouts. And what if the estate is then awarded one of Mr. Bevan's housing medals? Who gets it, the architect or the fabricator?

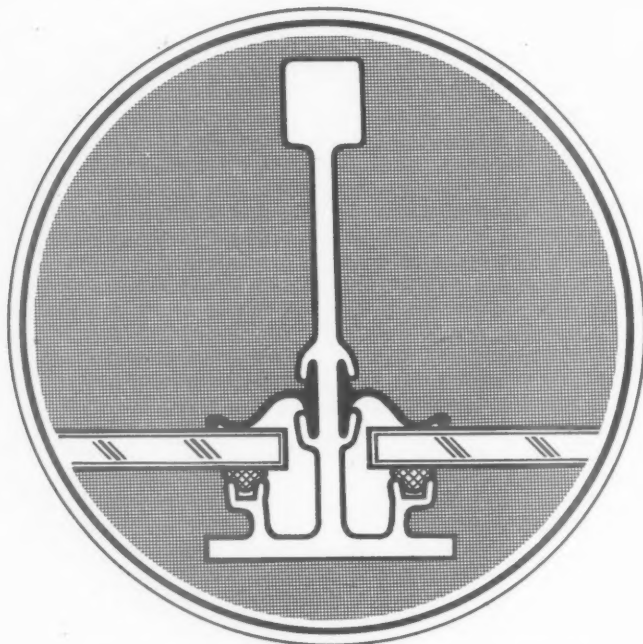
## WHO WAS HOAXED?

ASTRAGAL's morning paper, or one of them, featured the atom bomb patent which succeeded in hoaxing the police. Although the various mis-spellings ought to have given the whole game away at once, the police were, perhaps, right to play for safety. The real joke seems to be on the Harwell boys, who have had built up for them such a reputation that the public believes anything. If only someone had seen a bearded man with snow on his . . . but hush, the dailies need no help from a poor old weekly columnist like me.

## TIMBER CHIMNEY

The photo overleaf (sent to me by a Tyrone reader) shows a piece of chimney construction which may amuse some of you. Apparently this was the standard Irish method 200 years or so ago. The hearth opening (peat fires, of course) was spanned by an adzed timber beam about 6 in. square on which the rough "rod" framing rested. Plas-

# HOPE'S ALUMINIUM PATENT GLAZING



·CL· BAR FOR SPANS UP TO 10' 6"  
ALSO ·BL· BAR FOR SPANS UP TO 9' 0"  
AND ·AL· BAR FOR SPANS UP TO 7' 6"

HENRY HOPE & SONS LTD  
SMETHWICK, BIRMINGHAM & 17 BERNERS ST., LONDON, W.1

tering v  
ness of  
flue wh  
form o  
built,  
thatche

As w  
kind, i  
adequa  
it on t  
doubt  
gory a  
tion."

STUDE  
A rea  
inform  
ruling  
ciatesh  
about  
of pra  
take t  
This f  
of P  
which  
sign,  
had p  
has de





*It is now possible to dispel rumours that there was a serious leakage from 9, Queen Anne's Gate, last week. It is true that when the art editor of The Architectural Review was dealing with his morning post in the usual way on April 1 (top left) he found in one parcel several samples of the vocabulary of floorscape. And it is true that although there were some obvious mistakes in the handling of that vocabulary, he promptly began an examination of texture (top right). Several questions were, in fact, raised in the house. Was this, it was asked, a challenge from rivals who had mastered the vernacular? More important, were the cobbles and the grid genuine? The answer may be found in the photograph on the right. This was taken especially to confirm that although the symbols used were not false in themselves they combined to form an effect that can only be described as Inarticulation. "Just a stupid schoolgirl's joke," said one of the investigating experts to ASTRAGAL.*



tering with mud and cow dung to a thickness of 8 in. or so produced a tapering flue which ended in a small timber platform on which a short brick stack was built, presumably to protect the thatched roof from the heat.

\*

As with so many constructions of this kind, it is fairly safe to bet that it works adequately, but it would be fun to try it on the Fire Offices Committee. No doubt it would be put in a special category as "liable to spontaneous combustion."

#### STUDENTS TO BE CERTIFIED

A reader has sent me some startling information about the RIBA's new ruling on students' admission to associateship. Apparently those who are about to start their post-training year of practical experience will have to take their employers a form to fill in. This form incorporates a "Certificate of Practical Building Experience" which the employer will be expected to sign, confirming that the student has had practical building experience and has done satisfactory work. But that's



*A 200-year old method of chimney construction in Ireland. See note on previous page.*



## *No Longer Abstract*

Eighteen months or so ago, when the JOURNAL published a series of reports on the new towns, it was only possible to present abstract studies of them. Although they had been conceived four years earlier they were little more than ideas on paper. But in recent months enough progress has been made for some assessment to be made of the ultimate character of the towns. Aerial views of six of them are published in this week's JOURNAL, including Harlow, the

largest of the new towns, where the photograph above was taken. (The sculpture, as many readers will recognize, is Barbara Hepworth's "Contrapuntal Forms," which stood, during the Festival of Britain, on the podium of the Dome of Discovery.) No attempt has been made to criticize the layout and development of the new towns, but it is hoped that this will be done in a subsequent series of articles by D. Rigby Childs, the writer of this week's survey.

not all  
to fill  
about  
by the  
Survey  
proxim  
ings, D  
vision  
be told  
he gets  
quired  
pletes

My co  
this to  
the stu  
the co  
being a  
nation,  
is to b  
form.  
pleased  
plete.  
nearly  
assistan  
still ha  
ties, d  
placed

No d  
like in  
respons  
form h  
ence th  
of gra  
terests  
if an  
certifica  
the stu  
perien  
require  
experie  
aspects  
why sh  
form a  
exampl  
a rece  
"Expe  
sary."

I agre  
if a ce  
the pro  
is taken  
not be  
certain  
should  
his emp  
knowle  
fession  
enough

## POINTS FROM THIS ISSUE

Progress in the New Towns.....	pages 444, 445, and 449
Non-traditional building encouraged by MOHLG ..	pages 441 and 447
Students to receive "practical" certificates.....	page 443
Authorities asked to review housing equipment .....	page 447

## The Editors

## PROGRESS IN THE NEW TOWNS

THE new town corporations must have been conscious for some time that their work was being watched with interest both in this country and overseas. Not only are they agents for carrying out one of the great social ventures of this century, but they are in the unique position of being temporary authorities set up in isolation in the midst of the recognized territories of permanent local authorities. But if these corporations have been the cynosure of all eyes in the world of architecture and planning in the past they are rapidly becoming the object of even greater vigilance and criticism.

For almost five years we had to be content with watching the fashioning of the new towns on paper. Now, at last, we can see some indications of what their character will be when they are completed. Some hints of the ultimate appearance of six of them can be obtained from the aerial photographs, recently taken, published on pages 449 to 455. In an accompanying article, D. Rigby Childs comments on progress made to date in these areas.

Does it look as though these new towns are going to be all that we hoped for? Will each—or any—of the development corporations have created a new and original environment, satisfactory in conception and detail? Or will the results of their work be little better than improved and up-to-date versions of pre-war suburban development? Those questions cannot be answered solely with the evidence provided by the photographs published this week. But the JOURNAL will later deal with each town in turn and, with the aid of pictures of work completed, will attempt to assess their qualities.

There are, of course, no accepted standards by which the achievements of the new town corporations can be gauged. Would not the creation of such a standard by an established authority, working possibly within the framework of the powers of Expanded Towns Bill, lead to valuable results? The LCC, for instance, as the world's largest housing authority, is in a powerful position to create a neighbourhood first class in conception and detail. Surely this authority, which had the vision to initiate Lansbury, could be encouraged to make a contribution to solving its own housing problems by building in a country area an experimental neighbourhood representing the more advanced aspects of housing design.

not all. The employer will also have to fill in a page and a half of details about the practical experience gained by the student, under such headings as Surveys, Negotiations, Designs, Approximate Estimates, Contract Drawings, Details, Specifications and Supervision on Sites. And the student will be told that it is *his* job to see that he gets the forms of experience required and that his employer completes the certificate.

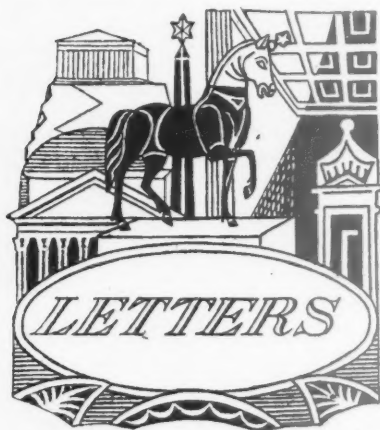
My correspondent says he considers this to be an impertinence not only to the student, who will now have to get the consent of an employer before being allowed to sit for his final examination, but also to the employer who is to be badgered into filling up the form. Certainly no architect will be pleased to have another form to complete. But that will not irritate him nearly as much as hearing from his assistant that, after eleven months, he still has not negotiated with authorities, drawn up a specification, or placed a contract.

No doubt many students will feel like inquiring just how many of those responsible for the introduction of this form had such wide practical experience themselves within their first year of graduation. But what really interests me is what is going to happen if an employer refuses to sign the certificate. And what will happen to the student who isn't able to get experience of all the forms of experience required of him? If he only needs experience of a few of the many aspects of architectural office work why should there be any need for a form at all? Maybe this is simply an example of the attitude of mind behind a recent newspaper advertisement: "Experience essential, but not necessary."

I agree with my correspondent that if a certificate must be issued before the professional practice examination is taken, the onus for getting it should not be placed upon the student. And certainly the certificate—if required—should be the *only* thing required of his employer. After all, the student's knowledge and understanding of professional practice will be tested soon enough by examination.

ASTRAGAL





Ronald S. Harvey, A.R.I.B.A.

City Architects Dept., Coventry

R. P. Slocombe

P. G. Beresford, A.R.I.B.A.

## Architects' Salaries

SIR,—The salary level of local authority architects, and, for that matter, of assistant architects in private practice, is inexorably linked with the status of the profession as a whole. This fact has been brought into glaring prominence by the recent salaries award to doctors whereby it appears that they are able to command anything from two to three times the salaries of their architect opposite numbers.

A great many of us, and especially those who qualified immediately before or after the recent war cannot, through sheer financial stringency, if for no other reason, remain content to believe that our present low salary scale is a just one. We therefore look to the RIBA or, if Neil Martin-Kaye insists, to the RIBA and I.R.A. together, to show some evidence of their efforts to improve the situation. If such evidence is not forthcoming, as would appear to be the case, we are bound to assume either that they have made no effort on our behalf or, that they are faced with the prospect that our professional prestige does not warrant a fight for a higher salary scale.

I imagine the latter is nearer the mark and though it seems that little can be done to reduce the present overcrowding of the profession in relation to the work it is now called upon to perform, presumably the RIBA is in a position to so regulate, by examination, the quantity and quality of newcomers to the profession as to ensure that they at least will be able to command the salary our long training justifies.

RONALD S. HARVEY.

Bristol.

SIR,—The letter from Messrs. Duncan, Brown & Jack was pertinent, and recent increases in salaries of members of the medical profession show quite clearly what a vigorous and progressive professional associa-

tion can do for its members. The statement in the letter that skilled and unskilled operatives often receive considerably higher weekly pay than the architect in charge of the project is lamentably true, and such a situation would precipitate action by a professional body interested in the status of the majority of its members. Compared with the BMA the efforts of the RIBA since the war are negligible, and the reason for its inactivity is generally known, regretted and accepted as irrevocable by the majority of the profession, the majority being salaried employees of central and local governments and in private architects' offices.

The apathy of the RIBA is deliberate, the policy of a council interested in the preservation of private practice for the few and consisting mainly of private employers, their inactivity is quite understandable—employers do not advocate raising employees wages when it affects their pockets.

Mr. Martin Kaye's attempt to offer a solution is commendable, but his method undesirable. His suggestion that the RIBA is a learned society, above action for the financial betterment of its members, is utter nonsense. It has produced and revised the scale of professional charges, which makes certain that the private practice minority have fees which rise with the cost of building and the general cost of living. Joining another institution is senseless. There are too many doing too little and costing too much already.

The remedy lies in the hands of the majority, and redemption of the RIBA from its present stagnation is constitutional. If salaried architects took an interest in their local societies and made certain of representation by salaried architects on local committees and the RIBA council by voting only for salaried men and withholding votes for architects in private practice, a new and virile institution could be created.

In view of the fact that the council of the RIBA has a majority of Fellows, it is the duty of all salaried architects who are eligible for election to this class of membership, to take the added responsibility and act rather than talk apologetically of the effete RIBA. It is also the duty of all members to vote intelligently and to see that salaried architects are well represented on the governing body of their professional and learned society.

W. AMCOTTS (A), J. C. BARKER (A),  
C. BORNAT (A), J. C. BROWN (A),  
G. A. COLE-EVANS (A), A. G.  
DAVIDSON (A), A. W. H. DUNCAN-  
JONES (A), G. A. GREY (A), W. A.  
JAMES (A), D. B. JOY (L), J. K.  
MCKAY (A), F. MOATE (A), G. H.  
MORRIS (L), D. L. O'CONNOR (A),  
F. M. O'CONNOR (A), P. T. POWELL  
(A), H. O. ROBERTS (A), W. G.  
SEALEY (A), R. E. SWIFT (A),  
E. C. TORY (A), A. R. WALKER (A),  
C. M. WALKER (A), R. H. WILLIAMS  
(A), D. J. CHALK (S), DIPL. ARCH.  
BIRM., C. C. H. CHAPMAN (S),  
W. G. MANN (S), M. H. NEWIN (S),  
B. J. SEAMAN (S), D. M. TAYLOR  
(S).

CITY ARCHITECTS DEPARTMENT,  
Coventry.

## Costs to Consumer

SIR,—From time to time your JOURNAL illustrates varying forms of dwellings built for private occupation and for renting by local authorities. So far as my recollection serves me, it is your custom to indicate the cost of construction of the former but never with rents to tenants of the latter.

It will not, I believe, be argued that such information does not concern the architect, for architects naturally must have in mind the ultimate cost to the "consumer." Especially in times of ever increasing cost-of-living is rent of particular importance.

At least one individual reader would be very appreciative to learn the prospective gross rents (showing subsidy) that are being charged for the attractive amenities so often illustrated in your features.

As being more concerned with management than with design, I offer this suggestion for your consideration.

R. P. SLOCOMBE.

London.

[Would readers appreciate this information? If so, we shall try to obtain it when possible.—ED.]

## Architecture as Art

SIR,—The little argument over the professional practice exam. seems suddenly to have spread to much more fundamental issues. Maybe the larger question was in the wind anyhow, for when the AA recently discussed "Quo Vadis AA?" they concluded that "Something must be done," though, if anyone knew what, he kept quiet about it.

It is imperative, if we are to work out what is happening to architects, to distinguish between long- and short-term problems. Finding work is a short-term problem, knowing what to do with it when you find it is a problem that is always with us. One point which seems to be consistently missed, in present day debates is that architecture is an Art—and a Fine Art too. A lot of words are wasted in trying to get around this fact, and many ingenious theories have been produced to show that architecture is not really as difficult as all that, and that as long as you get a good plan, or a 58 deg. 17 ft. set square, or a decent set of window details, or a space frame, all will be well. The attempted evasions are varied and subtle (they will probably provide a good subject for a tranquil essay by whoever is in John Summerson's place a hundred years hence), but it is enough to point out here that architecture is not planning, not engineering, not science, not commonsense, neither landscape nor townscape, not even design, but a different thing altogether, in fact, an Art.

Now Art is in a pretty obscure state these days. It hardly seems to be taught in schools of architecture at all, perhaps because of technical difficulties, and its place is taken, in a makeshift way, by taste. Plunging rashly into another generalisation, I would say that while Art consists of having good ideas, taste consists of knowing good ideas, so that a student's career becomes a mad race to the reference library.

Likewise outside the schools. Men with an artistic training have managed to get themselves into important positions in industry by the argument that good design improves production and stimulates sales. The reasons put forward for the employment of architects are much the same. Well and good, after all we must live somehow, but this argument only implies the need for a good measure of sense and a slick line in the latest shapes. As this is all that the designer is paid to turn out, all too often it is all that he does turn out, whether he is designing houses or washing machines.

The schools exist to fill the profession, and if the profession calls for tasteful technicians, these will the schools produce. No wonder that a young man who enters a school as an intending artist feels confused when he comes out at the top end. Just at present the schools are producing more than the profession can absorb, which makes life very awkward for a lot of us, so we object, loudly. Hard times have a habit of getting easier, though. What, I submit, is more seriously wrong with our shiny new profession is that not only are we not bothering to train artists, but we are not even concerned at the lack of them.

P. G. BERESFORD.

London.





## MOHLG

### Housing Progress

The number of permanent houses completed in Great Britain during February was 16,163; 471 more than in January, and 2,179 more than in February, 1951.

The total number of houses completed from the end of the war to February 29, 1952, was 1,205,350 (including 157,146 temporary homes).

### Non-traditional Houses

The Minister of Housing and Local Government, in a circular to local authorities (28/52), has urged that programmes of traditional houses be "supplemented by the use of established 'non-traditional' methods."

These methods, the circular states, "provide thoroughly satisfactory houses at prices fully competitive with traditional methods, and, given judicious and careful lay-out, of not less satisfactory appearance."

The Minister has asked the firms mainly concerned what increase in production they can make, and, in order to save time in the placing of contracts, he will agree with the firm's prices for each type of house in each region, although variations will be permitted where site, or other, conditions are exceptional.

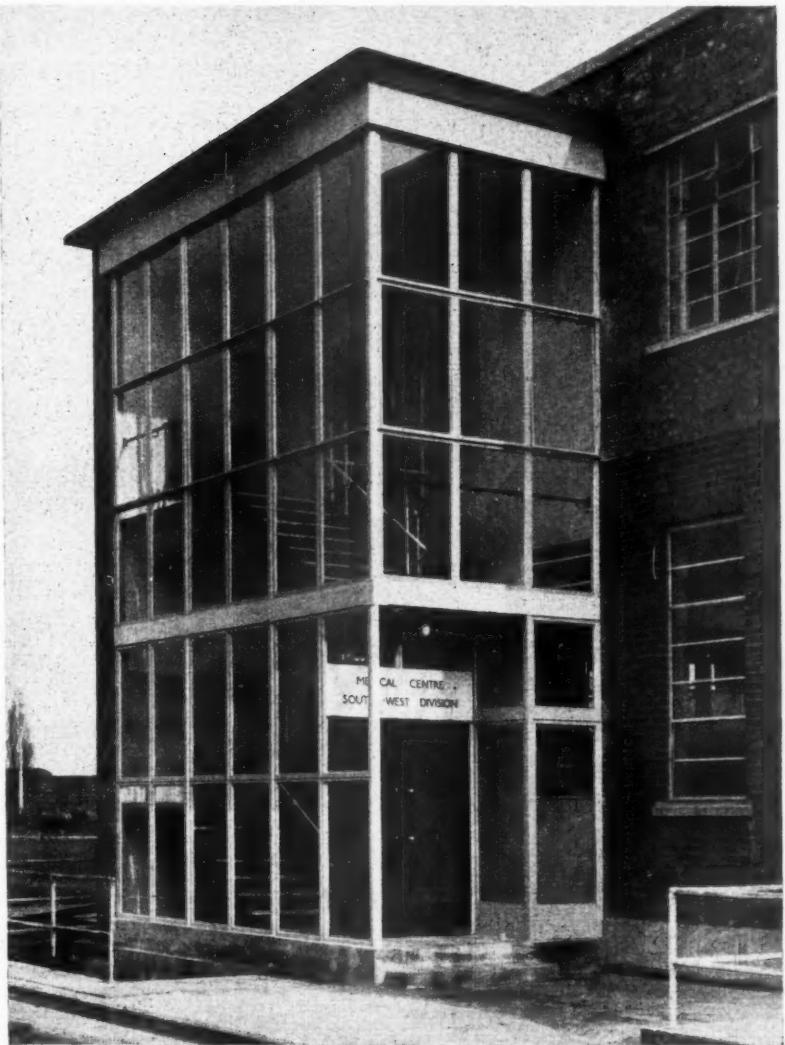
Increased housing programmes will be offered to local authorities who employ new methods of building for some of the houses they intended to build by traditional methods, and they will be permitted also to issue some of their private enterprise licences for the building of non-traditional houses. (See ASTRAGAL'S comments on page 441.)

### Services and Equipment

The Minister of Housing and Local Government has followed up his suggestions for economizing in the design of houses by asking local authorities to consider saving materials and labour, and keeping rents down, by reviewing the equipment of their houses.

In Circular 37/51, Mr. Macmillan points out that a saving of £50 in the capital cost of a house is equivalent to a reduction of over 10d. a week in the rent and he suggests that many prospective tenants might prefer to do without some services and items of equipment if rents were thereby reduced.

The Minister urges authorities to take account of the requirement of people to whom their houses will be let. These vary considerably, and authorities might install better services and equipment in different groups of houses (at appropriately varying rents).



A new medical centre for London Transport workers was opened recently by the deputy chairman of the Executive, John Cliff. The centre occupies part of a floor which has been constructed over the Chiswick recruiting and training building (the entrance staircase is shown above). Accommodation includes: reception room, consulting rooms, X-ray room, laboratory, eyesight testing room, records room and office. Consulting architects: Wallis Gilbert & Partners (in association with the Executive's Architect, Thomas Bilbow). Contractors: Marshall Andrews & Co. Ltd.

## DIARY

**Design and the Public.** The Influence of the South Bank and Battersea. Misha Black. At 88, Regent Street, W.1. (Sponsor: Institute of Public Relations.) 6.30 p.m.

APRIL 17

**Sculpture in Gardens.** Reg Butler. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor: ILA.) 6 p.m.

APRIL 17

**British Standards and the Architect.** Joint lecture by E. D. Mills, P. Cutbush and G. Weston. At RIBA, 66, Portland Place, London, W.1. 6 p.m.

APRIL 22

**Survey and Plan for Woolwich Town Centre.** Discussion led by Arthur Ling. At 13, Suffolk Street, S.W.1. (Sponsor: HC.) 6 p.m.

APRIL 22

**RSI Health Congress.** At Margate. The Organization and Design of Hospital Out-Patient Departments. Brigadier J. Bigby Welch; Physical Planning and the Housing

Drive, J. W. R. Adams; The Discharge of Trade Effluents into Sewers, W. H. Lockett; Some Aspects of Housing, with particular reference to Rural Areas, A. A. Armes; and other papers.

APRIL 22-25

**A Review of Current Research in Heating and Ventilating.** A lecture by N. S. Billington. At Engineering Centre, 351, Sauchiehall Street, Glasgow. (Sponsor: IHVE, Scottish Branch.) 6.30 p.m.

APRIL 29

**Exhibition of Italian Contemporary Architecture.** At 66, Portland Place, W.1. (Sponsor RIBA.) Closed from April 11 to 15 inclusive. Mondays to Fridays: 10 a.m. to 7 p.m. Saturdays: 10 a.m. to 5 p.m.

UNTIL APRIL 30

**Amenities in Factory Design.** A lecture by Walter R. Bennett. At RSA, John Adam Street, Adelphi, London, W.C.2. 2.30 p.m.

APRIL 30

**IES Summer Meeting.** At Winter Garden Pavilion, Eastbourne. Those wishing to attend should write to: The Secretary, IES, 32, Victoria Street, London, S.W.1, before April 18.

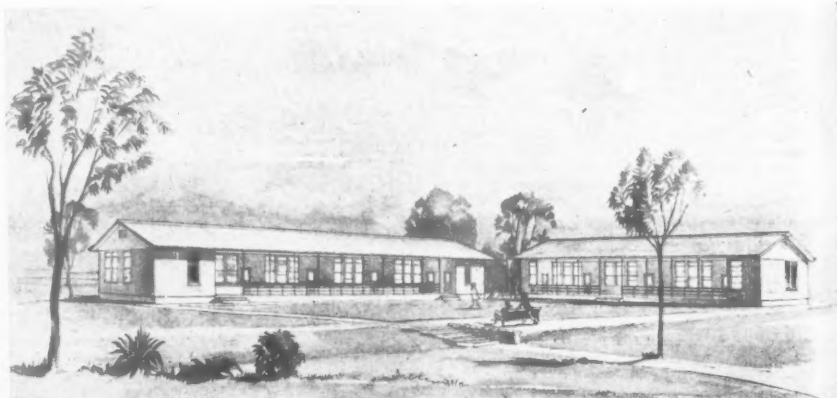
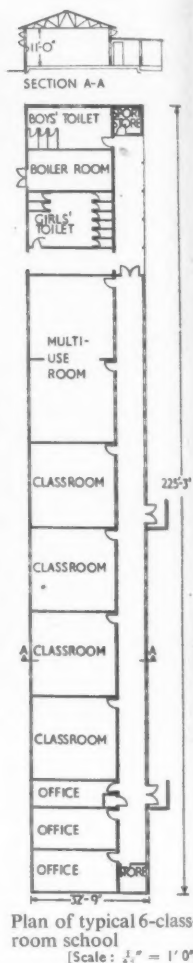
MAY 20-23

# PREFABRICATED BUILDINGS FOR AUSTRALIA



Up to November, 1951, approximately 1½ million pounds worth of prefabricated buildings for schools, offices, hospitals, bungalows, etc., had been delivered to various parts of Australia by Hawkesley Constructions of Gloucester. Above is a photograph of a typical general purpose building, 150 ft. long, 11 ft. high to the eaves and with a span of 40 ft. Below, right, is a sketch of three and four classroom blocks for the Department of Education, New South Wales. All the buildings are in panel form with the internal details prefabricated in the factory, so that on delivery to the site the final assembly occupies only a short period. The panels vary in size according to whether an 8-ft., 9-ft., 11-ft. or 12-ft. 6-in. ceiling height is required to suit the functional requirements of the building. All components are designed to be readily handled by a gang of about 6 men. The external wall panels each comprise a framework of light alloy extension, braced with horizontal timber beams and faced externally with ribbed light alloy sheets and, on the internal face, either with hardboard or plaster board. The cavity thus formed is lightly packed with a glass wool blanket which forms an insulating medium which has proved

adequate for temperate and tropical climates. Internal walls have a timber frame and are faced on both sides with hardboard or plaster board. The roof panels are of light alloy which is faced, during the rolling process, with a thin film of pure aluminium having a high resistance to corrosion and providing a polished surface. The reflective properties are valuable for insulation purposes. These panels are supported on light alloy trusses which are sub-assembled in the factory in sections suitable for convenient packing and easy final assembly. All the necessary fittings for the complete electrical and plumbing installations are built into the panels as far as possible.





*Housing by Fry, Drew and Partners at Harlow New Town.*

## HOUSING LAYOUT IN LONDON'S NEW TOWNS

*Readers will remember that about eighteen months ago D. Rigby Childs gave a series of reports on the organization and planning of the new towns and on progress made to the summer of 1950. This week he comments on the development of six of them. This survey is illustrated with aerial photographs which are exclusive to the JOURNAL.*

that the towns must be efficient as places to live and work in, to go to school in, to bring up a family in, and to enjoy the years of old age in. The new towns must also pay their way and fulfil their original function, be it to absorb people from the metropolis or to serve as a base for new industry or for coal mining. By these criteria it should in due time be relatively easy to appraise the merits of the individual new towns; it may be less easy to consider their merits in terms of the quality of the new environment which has been created.

A new series of aerial photographs, taken only about three weeks ago, show the progress made to date at six of the new towns in the London Region. A selection from this series is shown on this and the following pages.

The six new towns illustrated in this survey are Stevenage, Hemel Hempstead, Crawley, Harlow, Hatfield and Welwyn. I cannot do better than to open the survey by showing a photograph of progress at the first new town to be designated by the former Minister of Town and Country Planning, the now Lord Silkin.

*Northgate housing site, Crawley New Town. Four-bedroom terrace houses by A. G. Sheppard Fidler.*

### PROGRESS REPORT

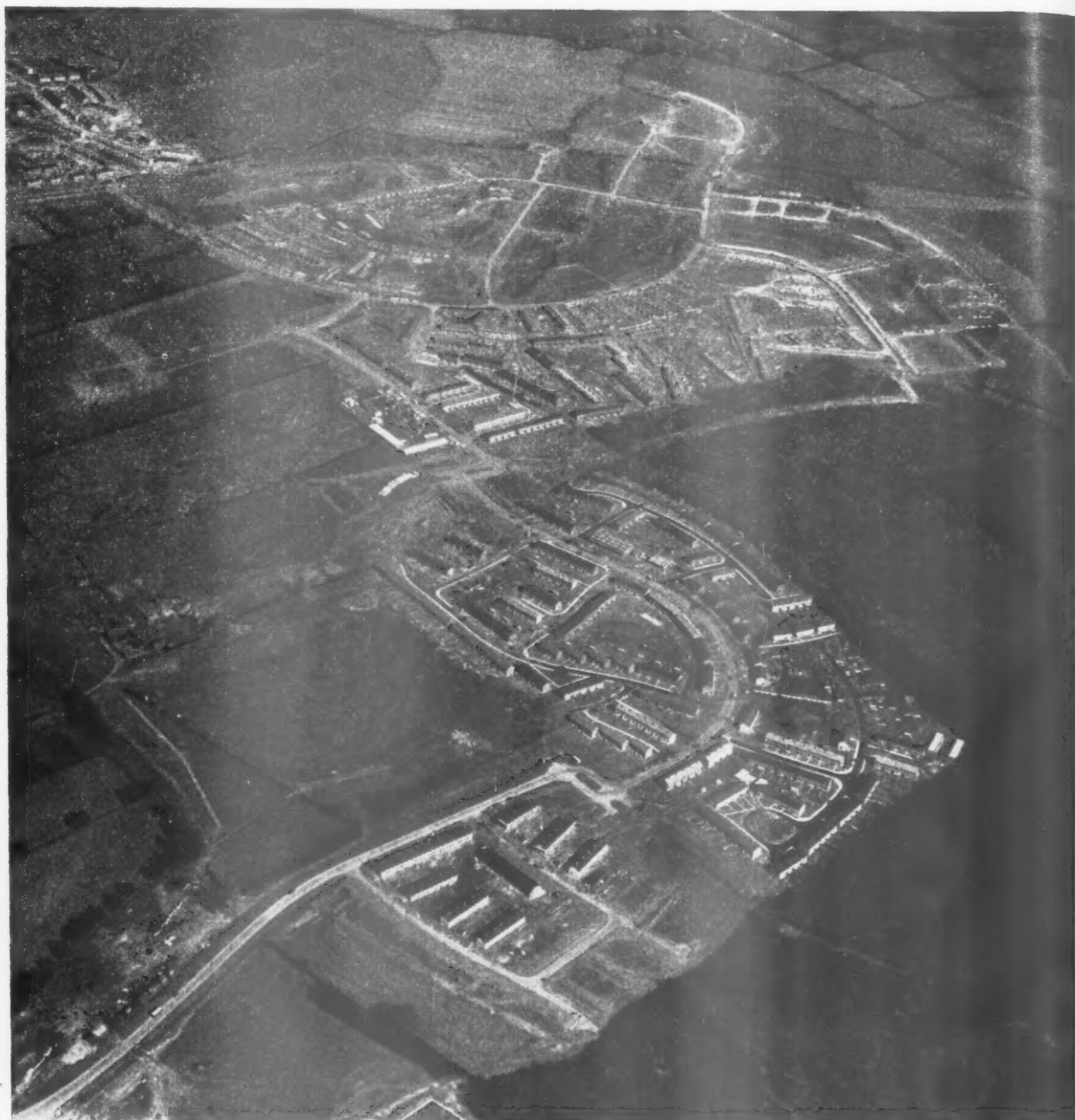
By D. Rigby Childs

SINCE my last surveys were published many of the new town corporations have been able to get into their stride. Much of the fundamental planning has now been completed, and the time has arrived when attention can be turned to looking at the end product of all this planning—the appearance and the quality of life in the embryonic new towns.

There are many criteria by which the success of the new towns can be judged. It almost goes without saying







# STEVENAGE

By the end of February this year the corporation had been able to complete only 317 houses and 44 flats and had housed a population of a few short of a thousand—progress during the last nine months had advanced rapidly, especially in the development of the second building area at Bedwell, the scene of the aerial view above.

In the completed town, Bedwell neighbourhood will be immediately to the east of the new town centre. In the foreground of the photograph is Monk's Wood and the more scrub-like Whormley Wood. These woods will form part of the green wedge separating the inner from the outer parts of the new town. Eventually another neighbourhood—Shephall—will be to the right of the woods and adjoining

fields. Beyond the woods will be sites for a group of secondary schools.

This view shows the skeleton of the

neighbourhood's roads being formed. At the end of Whormley Wood can just be discerned the preliminary

*The new town of Stevenage. Below: housing by O. C. F. Carr.*





excavation for an inter-neighbourhood road. The photograph brings out very clearly the variations on the theme of terracing of houses which the architects are working out.

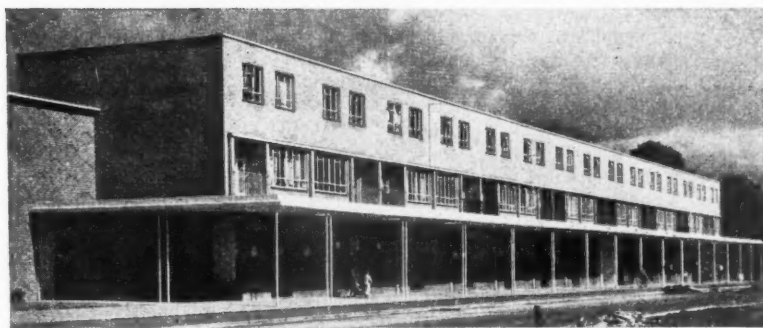
On the left of the picture is the fringe of the Stoney Hall development, the site close to Old Stevenage where building first began and where the housing is dominated by the well-known seven-storey block of 110 flats by Yorke, Rosenberg and Mardall.

At the time of writing the work under construction is as follows:—Bedwell Neighbourhood: 1,282 dwellings, a public house and 6 shops and maisonnettes. Elsewhere: a hostel for 350 men, the above-mentioned block of flats, 147 houses, 6 shops and maisonnettes in Stoney Hall, 10 other dwellings. A standard factory of 22,500 square feet was due to start in March (Chief architect: Clifford Holliday).

### HEMEL HEMPSTEAD

And now to move from Stevenage, on the east side of Hertfordshire, to the opposite side of the same county, where Hemel Hempstead was selected as the site for the second of the London new towns to be designated. At Hemel Hempstead the corporation holds the pride of place. It has every hope of being the first to complete 1,000 houses in a new town.

About 3,000 people are living in Adeyfield neighbourhood, designed by



*The first 14 shops at Adeyfield neighbourhood centre. Below: the principal part of the centre's new housing estate is outside the picture to the left. Old Hemel Hempstead is in the background.*

the corporation's architect H. K. Ablett. Road layout work at the second neighbourhood has begun at Bennett's End, where Booth and Ledebor have designed the layout for one of the most interesting sites among any of the London new towns.

The corporation's building record is 932 houses completed and 761 under construction; 3 factories are in production, 3 more are finished, and 4 are being built, 3 of which should be finished by the autumn. As at Stevenage and elsewhere, the school building programme by the county council has also gone ahead.

The neighbourhood centre at Adey-

field is planned to comprise 25 shops, a branch post office, a church, public house, and a hall, grouped around a square which is to be specially treated with coloured paving. The corporation has succeeded in obtaining approval to construct all the buildings around the square.

The block of 14 shops which can be seen in the photograph were occupied last August, and another 7 under construction can be seen in the foreground. The public house has also been started. It is hoped to lay the foundation stone of the church later this year and to start the hall in the autumn (Chief architect: H. K. Ablett).



T. F. Carr

g formed  
Wood can  
preliminary

## CRAWLEY

In a speech given at Crawley at the end of last month the chairman of the corporation, Sir Thomas Bennett, described how detail plans have been prepared for six out of the nine neighbourhood units of the complete plan for Crawley. Development plans in full detail have been prepared and issued to contractors for four neighbourhoods.

The aerial photograph shows the three neighbourhoods where building is going on. In the foreground is West Green. Beyond the triangle formed by the remaining open fields, which are to be kept permanently free from building, is Northgate. On the left of Northgate is the industrial estate where 15 factories are now in production in a series of standard factories and in two special purpose factories. Further building is in progress. The estimated value of factories built, under construction, or to be built by industrialists themselves, will amount to £1,600,000.

Across the front of the industrial estate and Northgate neighbourhood

can be seen, in the middle distance of the photograph, the old London to Brighton Road, which passes through old Crawley to the right of West Green. Behind Northgate neighbourhood stretches Three Bridges neighbourhood, incorporating part of the existing community of that name.

The new town has been developed from the old centre outwards, and all planning, which has hitherto been carried out in detail, has had to fit the existing sporadic development. The small West Green neighbourhood has been no exception to the rule. [See foreground of photograph.]

The chairman, in making his report, said that the roads and services of West Green were virtually complete, except for final footpaths and landseaping, and that 622 dwellings were built, or in the course of building. Of these, 96 were 3-storey flats and 50 were 2-storey flats.

The neighbourhood centre [the site for which can be seen in the photograph immediately beyond the first group of new houses] will consist of 7 shops with living accommodation over, together with a certain number of houses, flats

and bungalows, is expected to be in existence by the end of this year. The first part of the primary school [the site can be seen in the middle of the neighbourhood] should be ready by September.

The West Green neighbourhood—soon to be completed—will be an amalgam of development by the Corporation, extensive housing by Horsham Council and the older part of West Green.

The chairman described how: "Great efforts have been made to see that diversity is obtained, and that as much interest in individual houses can be obtained as is possible. We have avoided the erection of houses in rows on the suburban pattern, and we hope that West Green, as it is emerging, will be regarded by both old and new residents as worthy of its position in a Sussex town."

By the end of March the number of houses and flats completed in Crawley was 730; about 2,000 people had been housed. By December, it is hoped that about 1,450 dwellings will be occupied. (Chief architect: A. G. Sheppard Fidler)

*Crawley New Town.*



HAI  
Ha  
chro  
the  
80,0  
abo  
with  
120  
pla  
this  
but  
Th  
this  
770  
fur  
tion  
tha  
last  
as  
ing

*Harlow New Town.***HARLOW**

Harlow comes next in the order of chronology. It is to be the largest of the new towns, with a population of 80,000. The other distinctive feature about Harlow is that the development, with the exception of the addition of 120 houses to old Harlow, is taking place on virgin soil. For the planner this may not always be an advantage, but for the designer it certainly is.

The latest position at Harlow—again this is up to the end of March—is that 770 dwellings have been completed, a further 1,182 dwellings are past foundation level, and 152 have not yet reached that stage. The separation of these last two classes may not always sound as well as a single figure for all dwellings under construction, but it is a

method of presenting information which the other corporations might well follow.

The aerial view I have chosen of Harlow is one that brings out the form of part of the Mark Hall north neighbourhood rather well. Just visible in the foreground of the photograph stands the row of detached houses which forms the boundary the house group called Mark Hall Moore, beyond which is the town, the group containing the now familiar point-block of flats.

Also in the foreground are the Gowers (on the left), where 16 small houses and a new vicarage are being built, and Ward Hatch [on the right] where a primary school is taking shape.

The housing and flats groups which can be seen are the Chantrey [front

left], Tany's Dell [front right] and Glebelands [right back]. The site still largely unfinished is known as Area 4, Mark Hall. It is hoped to build there 76 houses and two blocks which have been designed by H. C. H. Monson. The basis of the scheme is a tall block as a distant point of attraction and a low block of irregular form, giving an interesting shape and closer viewpoints.

Immediately to the south [extreme left, photo] is the Stow, the neighbourhood centre for Mark Hall/Nettleswell neighbourhood, 28 shops are nearing completion; the second stage of shop building at the Stow is expected to begin late this year.

Beyond the Stow will be the Nettleswell section, whereas the land at the further end of Glebelands and Area 4 will not be built over. To the east of





this part of Mark Hall north lies the East industrial area.

Industrial planning at Harlow at first lagged behind the provision of houses, but this is now being made good for 227,500 square feet of floor area is in course of development, compared to 89,900 sq. ft. already occupied. (Architect-planner, Frederick Gibberd; executive architect, Victor Hammett.)

#### HATFIELD

What a contrast there is between the sites of Harlow and Hatfield. About 1,200 yards to the north of Hatfield is Welwyn Garden City, which can be seen in the background of the aerial photograph at the top of this page. A permanent green belt will fortunately maintain this separation. To the west

*Above: the site of Hatfield New Town. In the background of the picture is Welwyn Garden City (seen also on the next page.) A permanent green belt will separate these two towns.*

of Hatfield and to the right of the Great North Road is Hatfield Aerodrome [extreme right photograph], and to the east is Hatfield House and park.

Well over half of the designated area can be seen in this photograph, which so vividly shows up the unplanned creation of the last fifty years. Fortun-

*Houses at Hatfield New Town. Architects: Lionel Brett and K. Boyd.*





ately for the designers of new Hatfield the southern half of the site is practically free from existing buildings.

The initial development, logically enough, has begun at the point where the old left off. The whole of the building activity has been concentrated in the new Roe Green neighbourhood: 74 houses have been completed up to date; 307 houses and 195 flats are under way or soon will be.

Eight workshops with a combined floor area of 1,750 square feet have been finished. The next stage of building will be the inviting of tenders for a neighbourhood centre, including shops, meeting hall and flats and for a further 492 dwellings.

That is the beginning in Hatfield, where 9,000 people are already living and where plans for another 16,000 are being made.

(Chief architect: Lionel Brett.)

### WELWYN GARDEN CITY

It is, perhaps, appropriate to conclude with a view of the pioneer new town which has been entirely a creation of the last thirty years and has been planned from the start.

The aerial photograph of Welwyn is a close-up of part of the view of the Garden City which appears in the background of the photograph of Hatfield. It shows the south-west area of Welwyn, the parkway, the town centre and the industrial area (on the right). In the foreground is Lemsford Lane and the fringe of development which borders the green belt separating Welwyn and Hatfield.

This view of the first Garden City shows Welwyn largely as it was when it was still in the hands of the former Garden City Company. The new additions in this area will not be substan-

tial. The opening phases of a building programme can be seen at the near end of the parkway, but this is no more than a rounding-off development. The football pitches on the adjoining field will be re-sited; the field, however, will remain for games.

The figures for the Welwyn Garden City Corporation's building programme are as follows:—62 houses, 98 flats, 2 shops, and 1 extension have been finished; 522 houses and 101 flats are under way or soon will be.

Also completed: 4 factories, with a total floor area of 21,000 sq. ft.; the Homestead Court Hotel and Restaurant, and a block of offices. About 300 people have been housed in Welwyn by the Corporation, but this figure should soon rise as almost 600 men are at work on civil engineering and building contracts. Chief architect: Louis de Soissons.)

*Welwyn Garden City.*



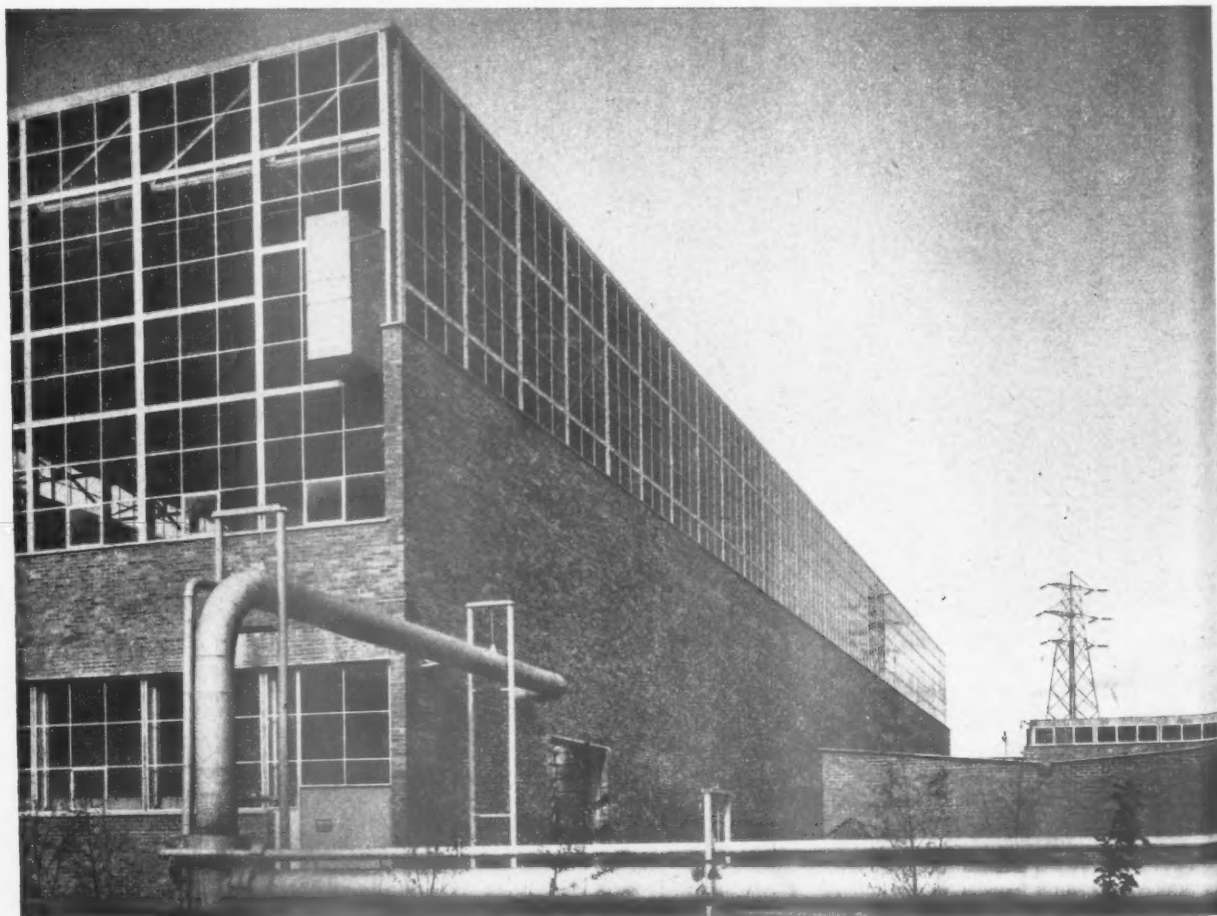
AEROFILMS

## PAPER MILLS

at LLANGYNWYD, BRIDGEND, GLAMORGAN  
designed by HENRY BUDGEN AND CO.

The site of the new paper mills for Wiggins, Teape & Co. (1919), Ltd., near Bridgend, had to be located in a government-scheduled distressed area, to have sufficient supply of water for papermaking, and to be sufficiently large to allow for the economic extension of the mill in any direction. It had to have a sufficient gradient to provide the necessary area of semi-basement with the minimum of excavation.

*View looking north-west, with the pulp store on the left.*



OFFICE CHAIRS: BANK IN LONDON E.C.3

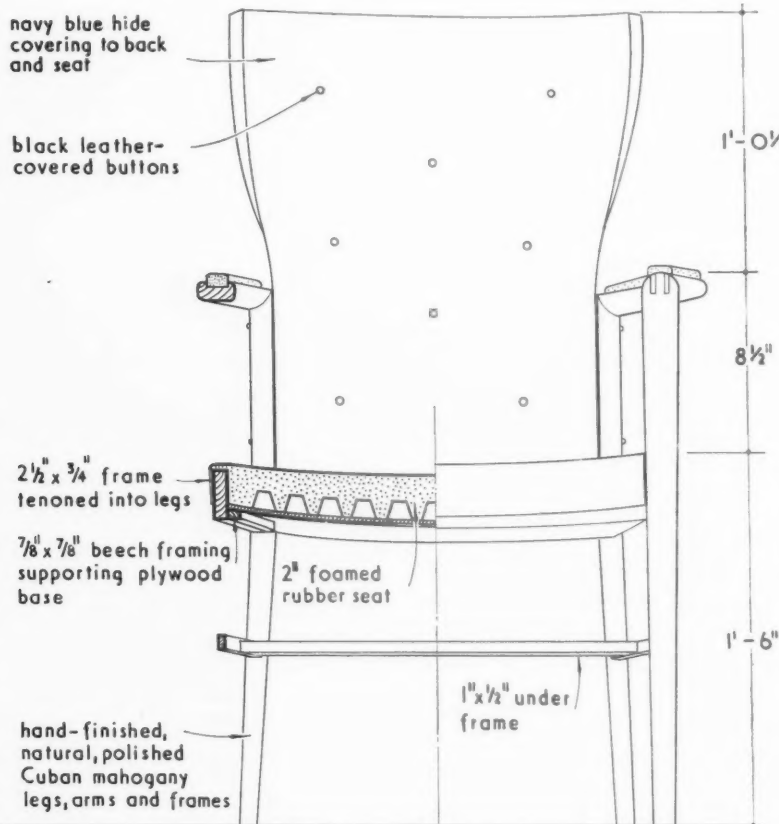
*Westwood, Sons and Harrison, architects; James A. Crabtree, assistant architect-in-charge.*



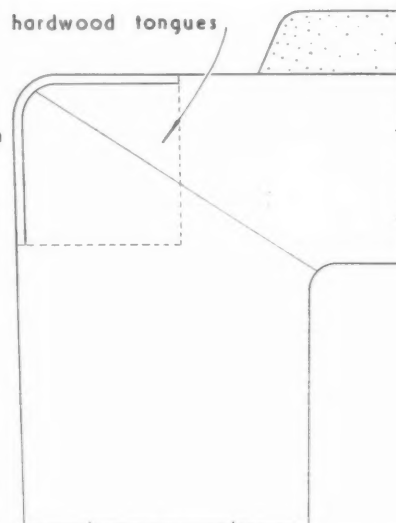
*The chairs are in mahogany and have backs and seats upholstered in foamed rubber covered with hide.*

OFFICE CHAIRS: BANK IN LONDON E.C.3

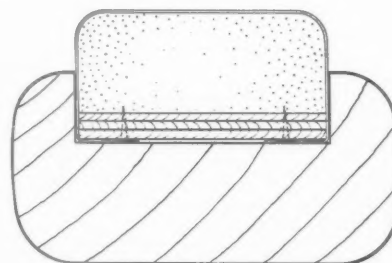
Westwood, Sons and Harrison, architects; James A. Crabtree, assistant architect-in-charge.



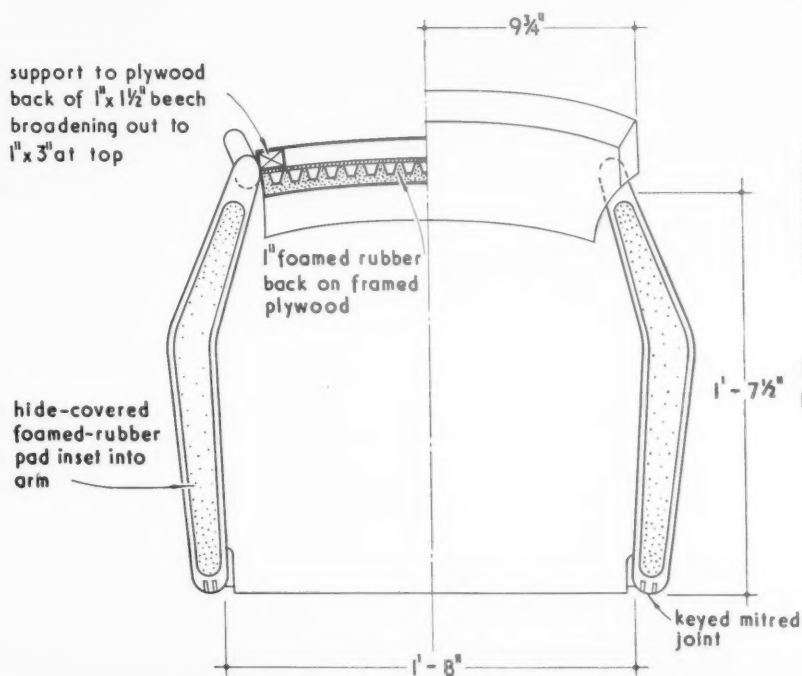
PART SECTION AND FRONT ELEVATION OF CHAIR. scale 1 1/2" = 1'-0"



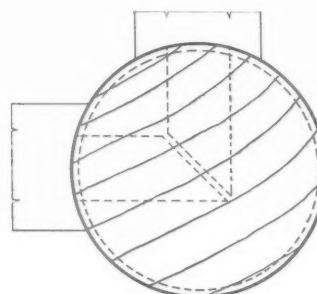
SIDE ELEVATION OF KEYED MITRED JOINT. scale full size



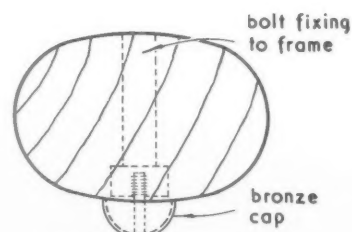
FULL SIZE SECTION THRO' ARM.



PART SECTION AND PLAN OF CHAIR. scale 1 1/2" = 1'-0"



FULL SIZE SECTION THRO' FRONT LEG.

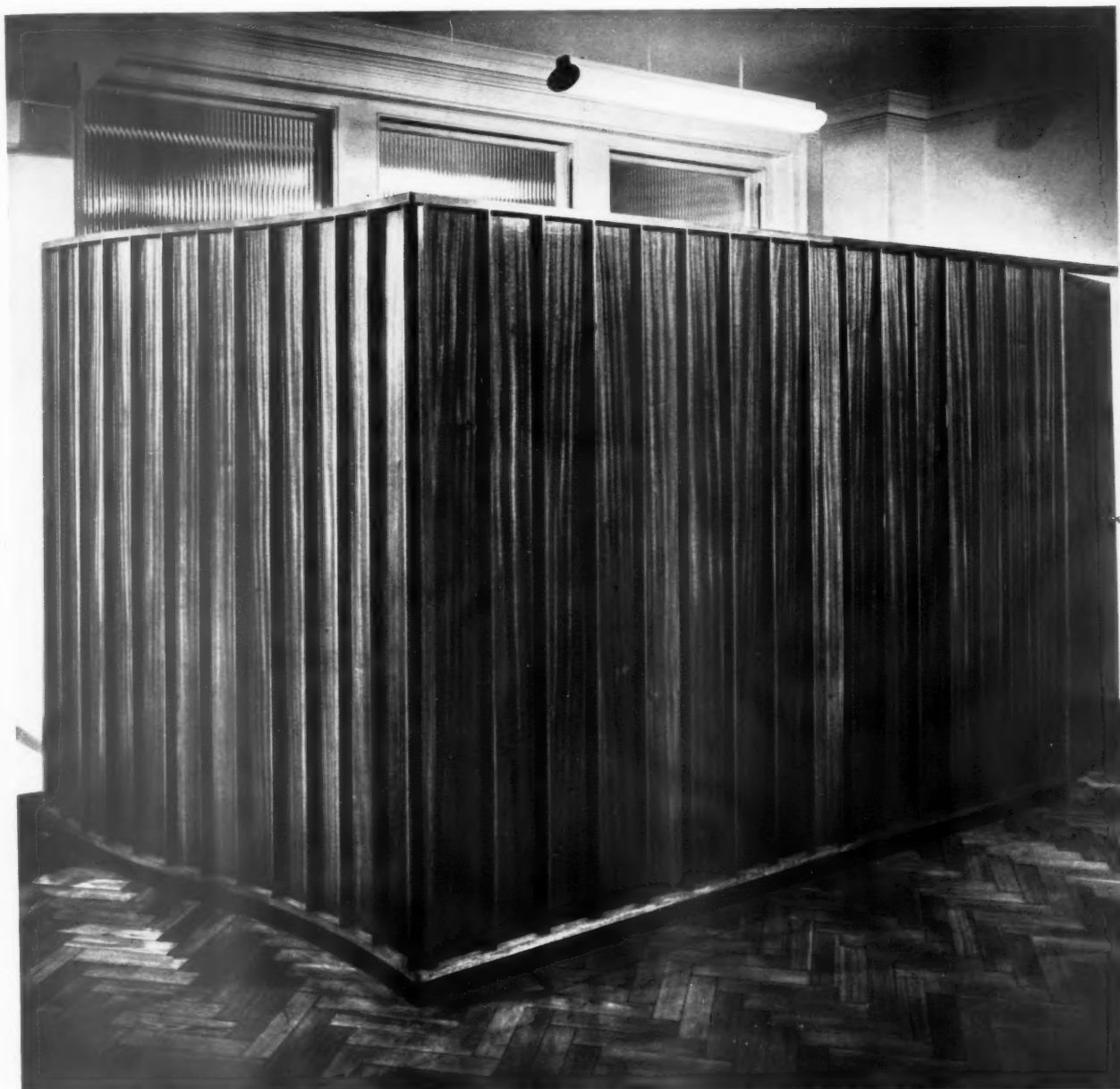


FULL SIZE SECTION THRO' BACK LEG.



WAITING ROOM SCREEN: BANK IN LONDON E.C.3

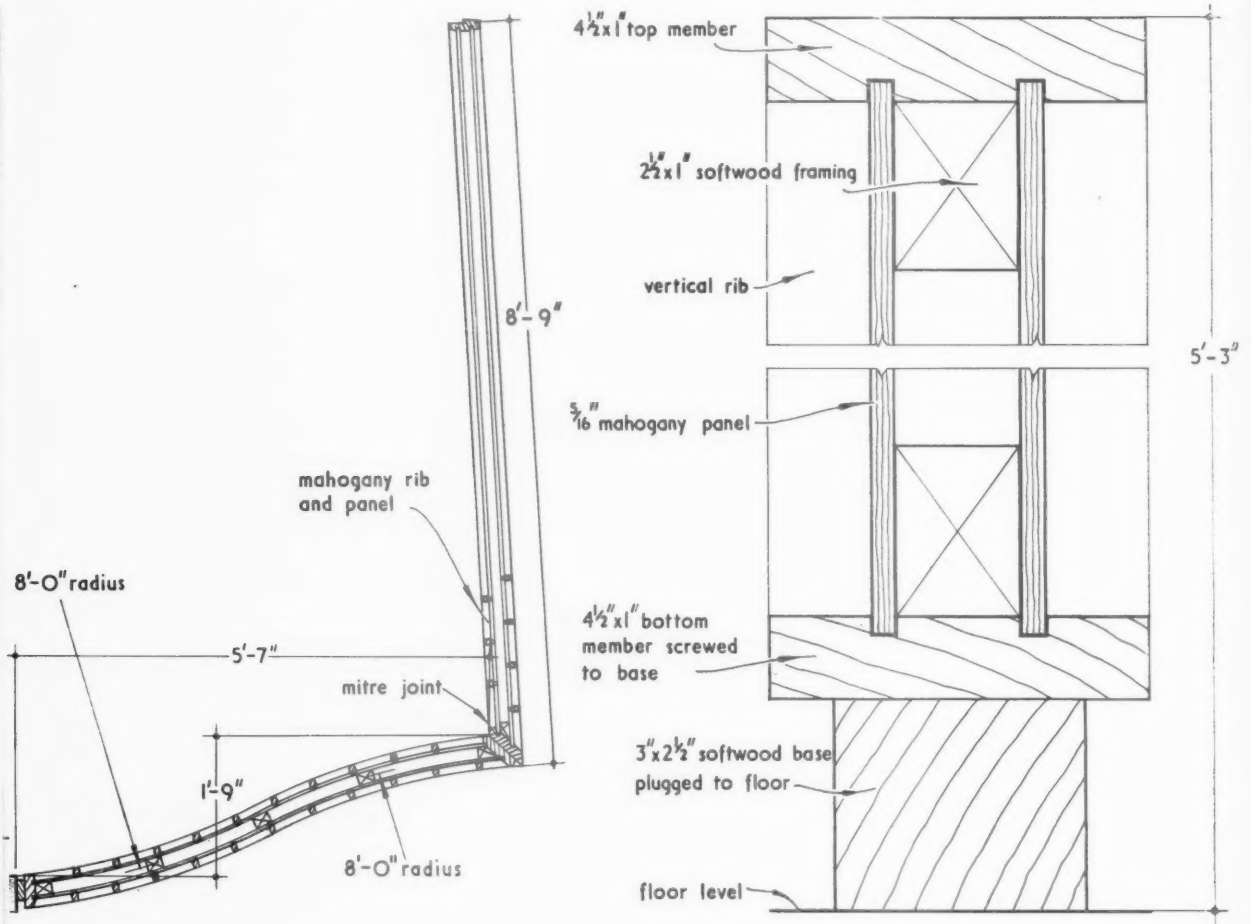
*Westwood, Sons and Harrison, architects ; James A. Crabtree, assistant architect-in-charge.*



*The narrow mahogany panels are separated by prominent vertical ribs, and follow the double curve at the end of the screen.*

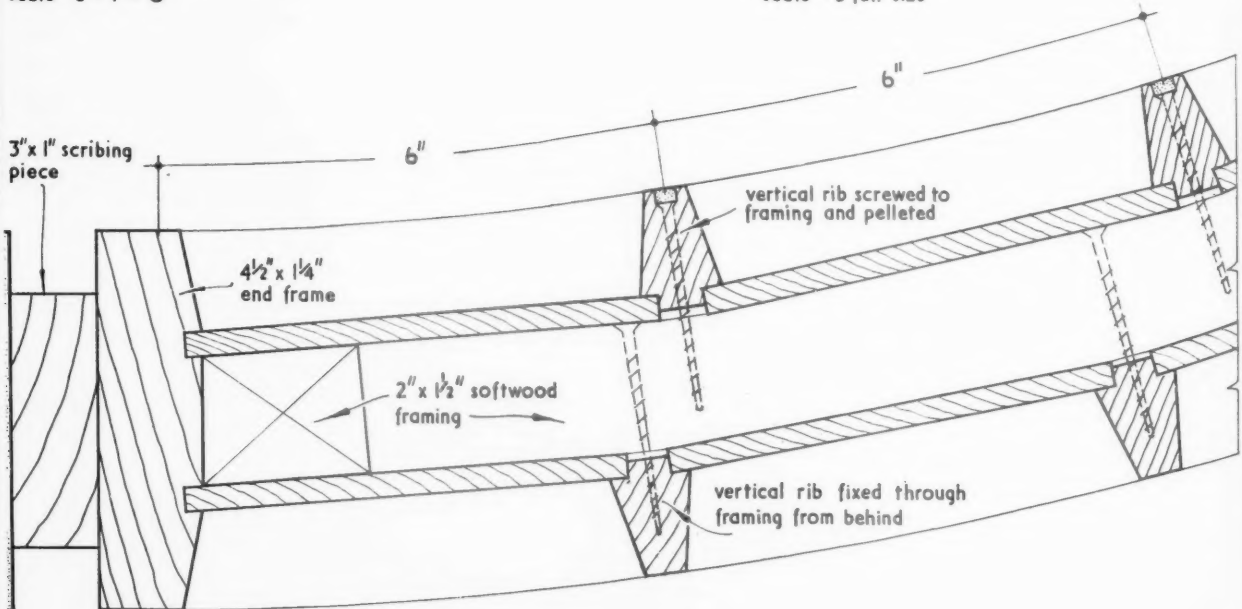
WAITING ROOM SCREEN: BANK IN LONDON E.C.3

Westwood, Sons and Harrison, architects; James A. Crabtree, assistant architect-in-charge.



PLAN OF CURVED SCREEN  
scale  $\frac{1}{2}$ " = 1' - 0"

VERTICAL SECTION THRO' SCREEN  
scale  $\frac{1}{2}$  full size

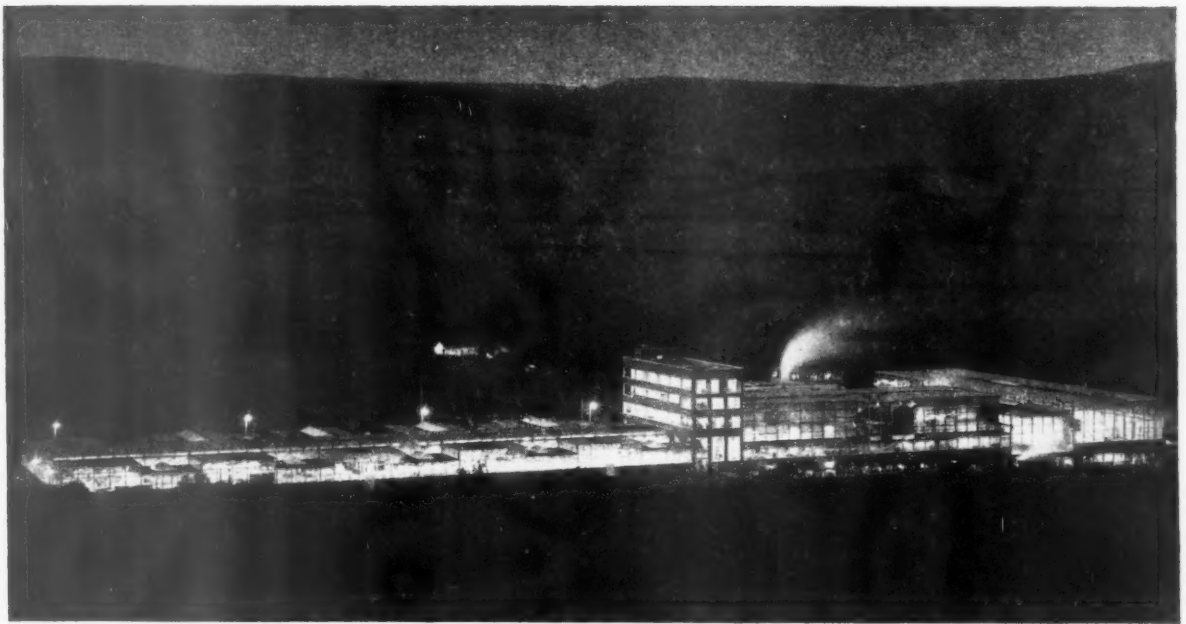


PART PLAN OF SCREEN scale  $\frac{1}{2}$  full size









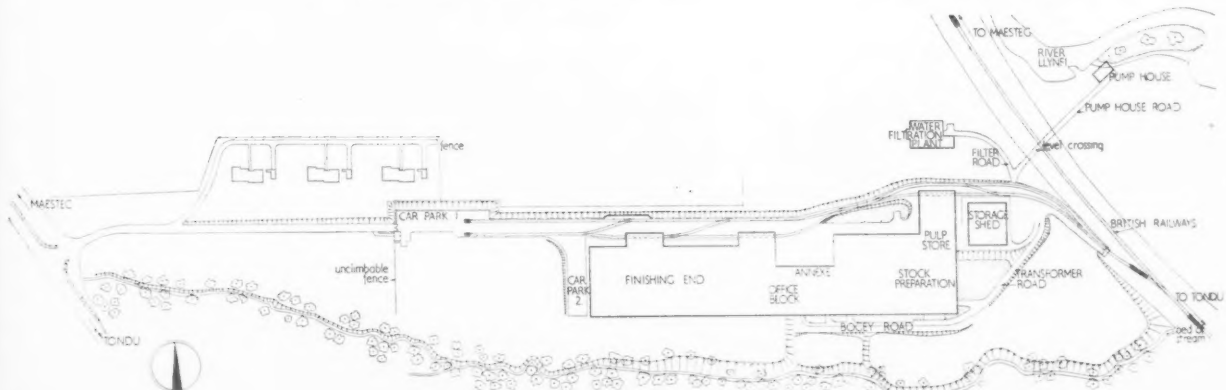
*Above, a night view of the mill looking north-east.*

**SITE.**—The close proximity of the Llynfi Power Station assures a supply of piped steam adequate for the necessary processes, thus eliminating the need for a large boiler plant. It also provides a convenient source of electric power for machinery. The site is situated between rail and road, which allows a natural production flow.

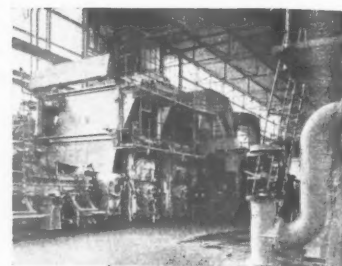
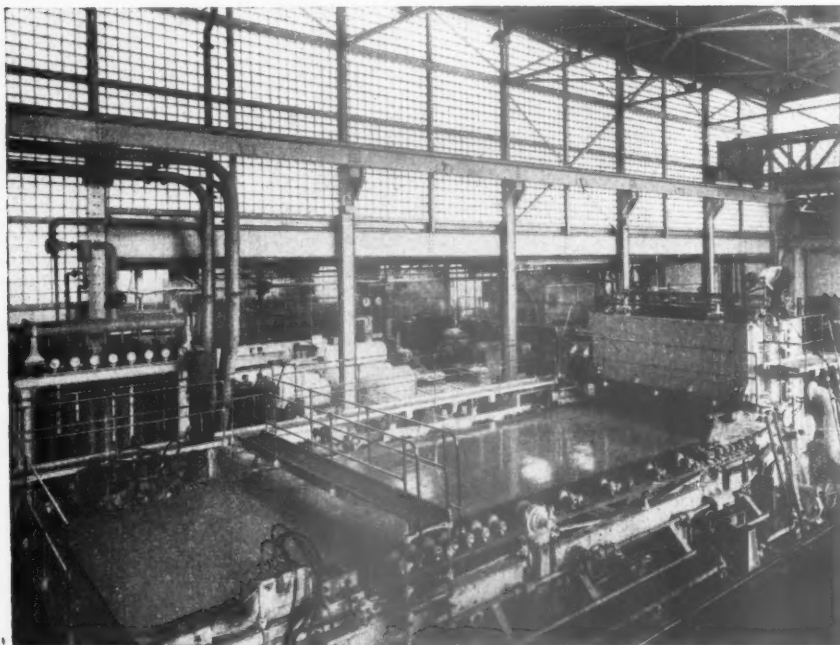
**PLAN.**—The planning is governed by the necessity for efficient production flow lines. The raw material enters the site from the railway and passes through all processes at ground floor level and emerges as the finished product for despatch by road or rail without interruption and avoiding unnecessary handling. Routine machinery maintenance is confined to the semi-basement below the production area, ensuring the minimum interference with production. The administrative offices are sited centrally in the mill between the production area and the despatch and finishing areas. These offices, canteen, laboratory, etc., are planned on the first

to third floors to allow a free production flow at ground floor level between machinery house and finishing area. Important offices, such as the managers', directly overlook the production area. A portion of the third floor is occupied by a 60,000-gallon water tank. The water is pumped from the River Llynfi via the filtration plant to this tank, and then gravity-fed to machines for paper-making. After passing through the process, the water is cleaned, collected in a 5-ft. duct running below the mill and returned to the river below the pumphouse.

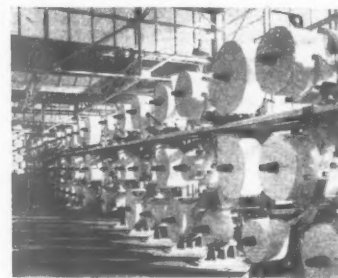
**CONSTRUCTION.**—The whole of the mill is steel framed, based on an 8-ft. 3-in. transverse grid above ground floor level. The walls are mostly of 11-in. brickwork below sill level. Roofs throughout are of aluminium decking, centrally drained to avoid eaves gutters and simplify drain runs. This inverted roof construction also gives improved light distribution and reduces the cubic content of the building for space heating and forced ventilation. The high



Site plan



Left, the machine house looking north into baby machine area. Above, looking south from the stock preparation area. Below, finishing end of the mill.



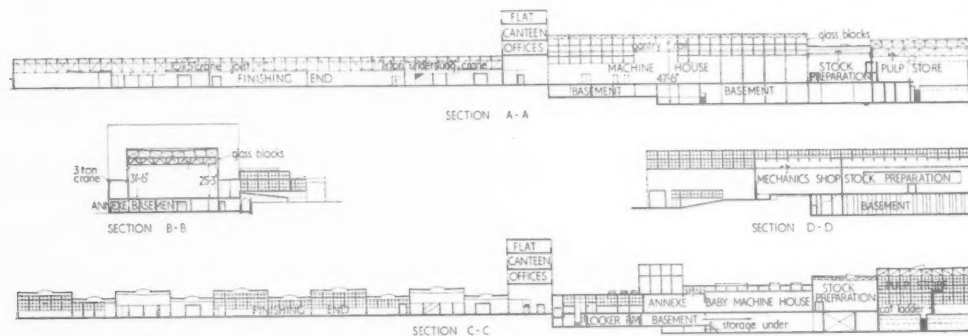
## PAPER MILLS

at LLANGYNWYD, BRIDGEND,  
GLAMORGAN

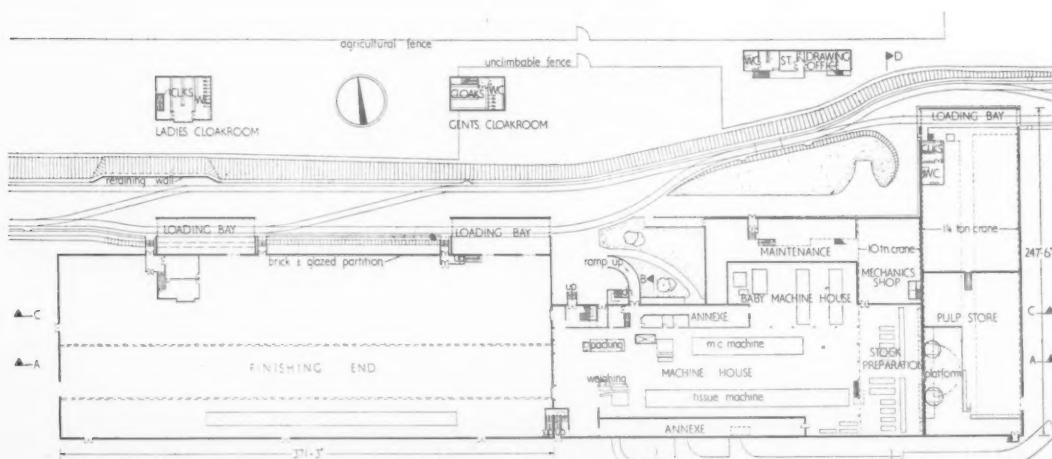
designed by HENRY BUDGEN  
and CO.

and low roof bay construction to the finishing area was designed to give maximum day lighting over the whole floor area by the use of vertical glazing and lantern lights. The basement area, administrative block, pulp store and finishing end areas are built

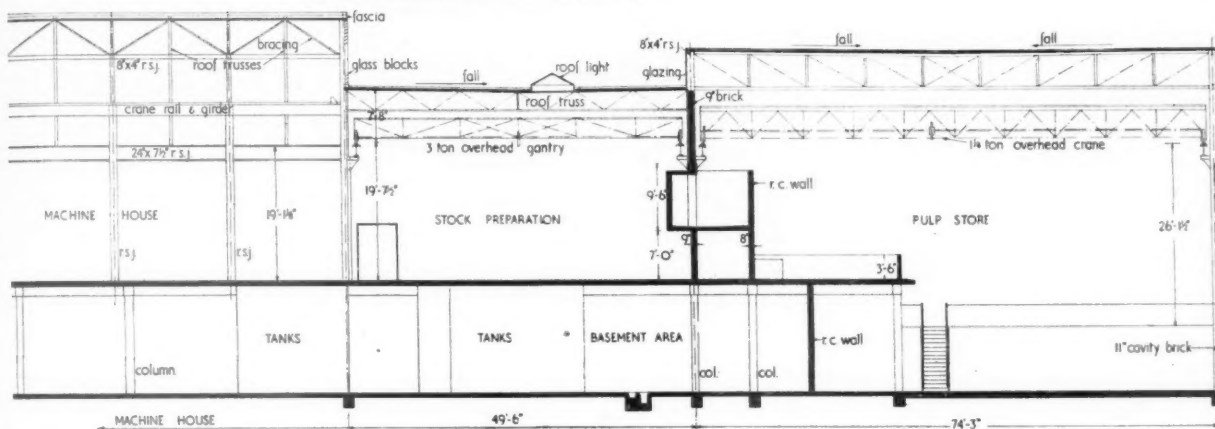
on concrete piles because of the low load-bearing capacity of the ground. The basement area is constructed of reinforced concrete and includes various large tanks of special design. There is a suspended floor to the production area above. The



Sections through mill



Ground floor plan [Scale: 1/8" = 1' 0"]

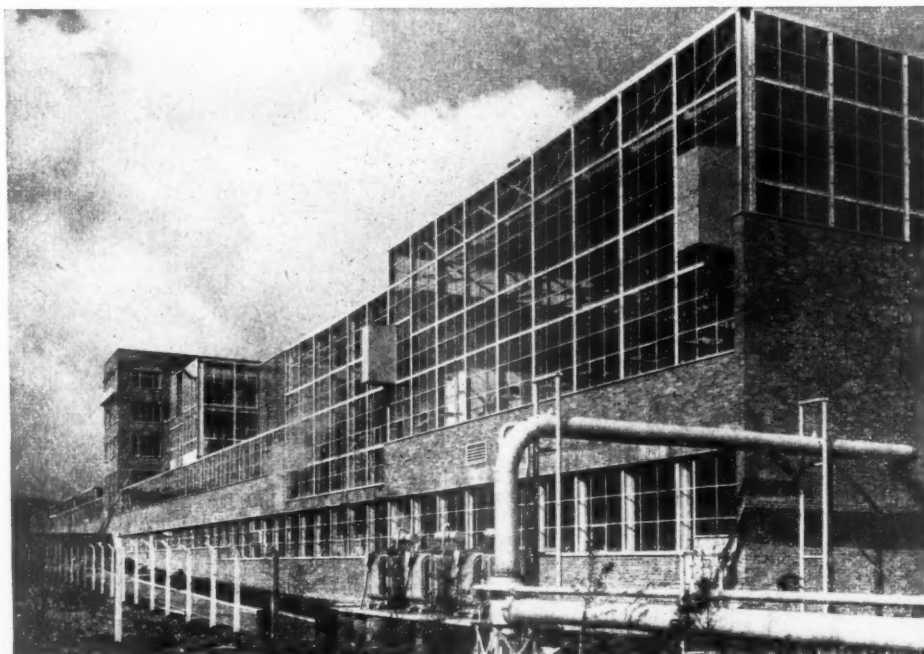
Plans of office block [Scale:  $\frac{1}{4}$ " = 1' 0"]Section through stock preparation and pulp store [Scale:  $\frac{1}{4}$ " = 1' 0"]

RC work is of a complex nature due to the great weight of machinery over.

**FINISHES.**—The windows are steel-framed and are clipped direct to the steel stanchions, thus providing the maximum daylight. Owing to the high humidity resulting from the process in the pro-

duction area, maximum insulation was important to avoid excessive condensation and to achieve this and also maintain a high day lighting standard, glass bricks are used in 8-ft. 3-in. by 16-ft. 6-in. panels. The general contractors were G. Percy Trentham, Ltd. For sub-contractors, see page 470.

Right, south facade of the production area, with the tall office block on the left.



## MEDICAL BUILDING

in LOS ANGELES, CALIFORNIA, USA

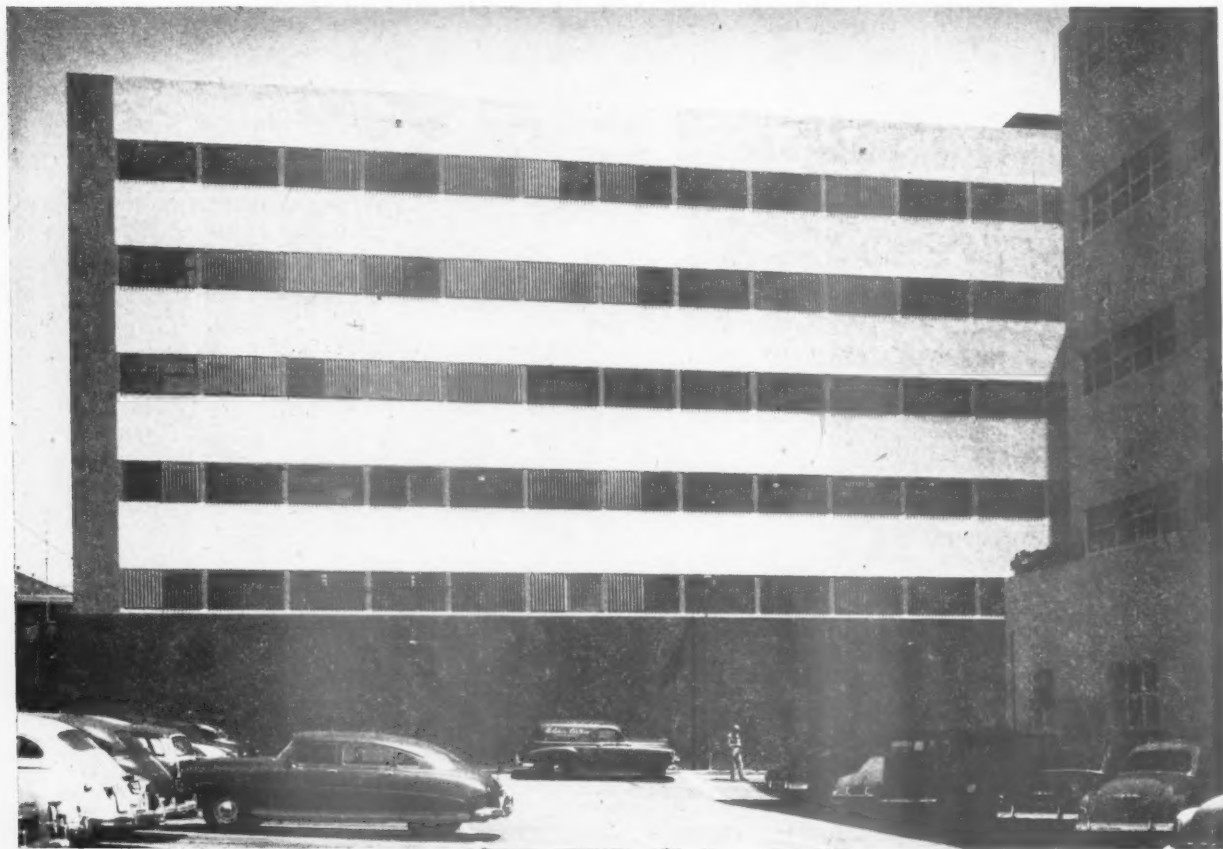
designed by VICTOR GRUEN

associate-in-charge R. M. BAUMFELD

consulting engineer EDGARDO CONTINI

The Mid-Wilshire Medical Building, recently completed in Los Angeles, is a kind of "Harley Street" under one roof, providing suites for medical specialists and several dentists. The suites are 35 ft. deep and vary in size from 300 sq. ft. to 1,350 sq. ft. In most cases they have a waiting room, business office, one or two small treatment rooms and consulting rooms. Nearly half have X-ray facilities.

*The west facade.*

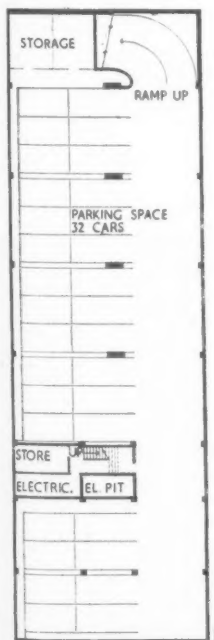


The  
facin  
street  
wall  
cast  
2-in.  
direct  
grid

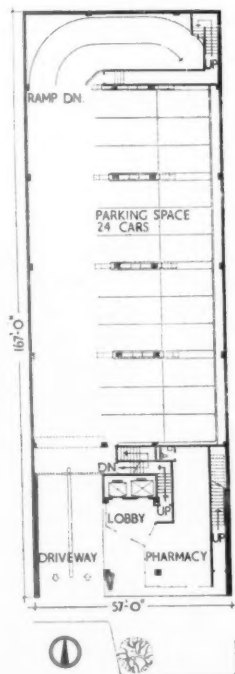
ST  
STO  
ELE  
ELE



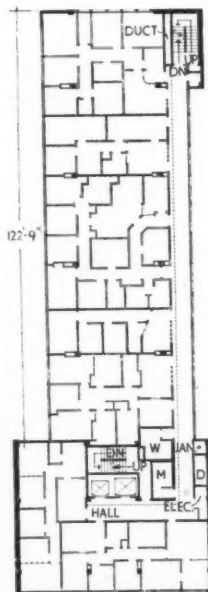
The south facade facing the main street. The solid wall areas are of pre-cast concrete panels 2-in. thick, applied directly to a light grid steel frame.



Basement plan



Ground floor plan



Typical upper floor plan  
[Scale: 1/4" = 1' 0"]

**PLAN.**—The architect was given the problem of designing an office building of a specialized type for sixty tenants and with adequate parking facilities, which are provided entirely within the building in the basement and a large part of the ground floor. These floors are connected by a ramp and cars are driven into the building so that sick and handicapped people have to walk only a few steps to the lifts. Because of the narrow width of the site, which is 57 ft. by 167 ft., a single corridor was designed on the east side of each floor in order to allow the maximum of rentable space (75 per cent. of the total area of each upper floor). Corridors are lit by a strip window and on the inside wall are translucent glass panels, vertically divided, to provide daylight for the reception rooms of the individual suites. It was possible to design most of the suites to individual requirements, since 80 per cent. of the total rental space was let prior to the drawings being prepared. To allow flexibility in the arrangement of consulting rooms, a 4-ft. module was used for strip windows.



## MEDICAL BUILDING

at LOS ANGELES, CALIFORNIA  
designed by VICTOR GRUEN

*Above, main entrance with drive-in to parking area on the left and pharmacy on the right. Below, progress photograph showing light floor beams. Below right, an upper floor corridor on the east side of the building.*

**CONSTRUCTION.**—Normally, on the west coast of the USA, steel framing is more expensive than RC construction for a building of this height, but in this case the use of structural steel was justified by eliminating heavy exterior walls, designing the main wing on the rigid frame principle with double cantilevers (columns are set back 8 ft. 5 in. from the exterior face) and using a very light type of floor construction. In spite of fairly wide column spacing, 25 ft. by 23 ft. 6 in. in the main wing, steel for the average floor framing, including girders, beams, joists and columns, weighs less than 9½ lb. per sq. ft.

Welding was used for all rigid connections and riveting elsewhere. It is thought that the structural system represents a 25 per cent. saving in tonnage over more conventional steel framing. Floors consist of a metal deck with 2-in. lightweight concrete topping supported on small open-web joists. The external walls are of 2-in. precast concrete panels.

**FINISHES.**—Ceilings are of metal lathing and a single thickness of vermiculite plaster, which is classed as "A" fire rating by the latest US building code revision. The ground floor entrance and lobby have walls of glass in aluminium frames. The building is air-conditioned throughout. The cost was kept below \$12 per sq. ft.



## TECHNICAL SECTION

It is to be expected that, with the complicated monetary policy which is presented in this year's budget, the effects of the Chancellor's proposals are not yet fully realized. Where the building industry is concerned, the changes brought about by the budget may be already appreciated but, as this week's special article indicates, they will not be felt for several months, perhaps even a year. Chief amongst these changes is the rise in the bank rate. The effect of this on the private would-be house owner is likely to be most marked and will lessen the present demand for houses. The cut of 4 per cent. in civil investments will, in the same way, mean less work for the industry. Today, defence work represents the only reliable demand. As far as the future situation can be estimated, it appears that there may be a gradual fall in prices and increased competition.

R. FITZMAURICE

This week's  
special article

### 1 SOCIOLOGY economic affairs

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

*In the following article Professor Ian Bowen discusses the budget, and describes its most important effects on the building industry. He finds that there is little likelihood of a substantial increase in the housing programme, but suggests that we may expect a fall in building costs.*

The most significant points in the budget debate for the building industry were the announcement of a higher bank rate, and of a cut of £100 m. in the total amount of civil investment. With regard to the latter, Mr. Butler referred particularly to reductions in expenditure on capital and machinery, and in stocks held by industrialists, and referred to a possible offsetting increase in defence expenditures and in building. The question whether building is intended to be cut or not remains, therefore, somewhat an open one, but it would appear

to be the Government's intention to keep the size of the programme approximately constant, making up in housing for any reduction in educational or commercial building.

It still remains important that the broader policy is to cut civil investment as a whole by at least £100 m.; that is by about 4 per cent., with a prospect of further cuts if the gold and dollar reserves do not improve. The further rise of the bank rate indicates, moreover, that the Chancellor is intending to rely more heavily than ever on the monetary

weapon; in other words, on a tightening of credit throughout the economic system. This is confirmed by the tax changes which he introduced. Had he meant to use fiscal rather than monetary controls the income tax concessions could hardly have been made.

How is this extra twist of the credit screw going to affect building? That is perhaps one of the most difficult forecasts to make.

#### EFFECT OF LOAN RATES

The most obvious consequence of a higher bank rate is that other money rates also are moved upwards, though not necessarily in proportion. Some sign of this is already apparent in the increased mortgage rates announced by the building societies. A similar, or steeper, hardening of rates will no doubt be found by the would-be borrower who wishes to finance his house purchase, for example, by way of increased overdraft (the actual level varying a little from bank to bank, and depending in part upon the financial status of the borrower). Yet this difference, a rise of  $\frac{1}{2}$  per cent. or even 1 per cent., would not seem to be prohibitive. On the face of it, such an amount would not seem likely to choke off the great excess of demand for housing which we have become accustomed to regard as almost normal.

Yet even this apparently small change may be quite significant. This is because the cost of home ownership does not consist of initial building costs alone, and also because building costs are still so high. After all, the rise in interest rates may add from 4s. to 8s. a week to the outgoings on a medium-sized house. This increase may not be unbearable to many would-be owners, but may, on the other hand, be the last straw to the marginal purchasers. They already have to reckon with income tax on the house, rising municipal rates, solicitor's fees and the other heavy incidentals of house purchase.

A hidden item in any such calculation is the cost of housing itself. It is unfortunately still true that little definite information is available on the present-day final costs even of the houses which are being subsidized by the State. It is safe to predict that when final costs are available they will be a shock to the public.

The small rise in interest rates will affect other types of building too. Every business in the country which has building plans will be forced to reconsider whether or not they can be postponed.

The momentum of the existing excess demand will no doubt carry the industry along, fully employed at its present level, for another six months or longer, but it is difficult to avoid the conclusion that by this time next year there will be a noticeable reduction in

all new building activity, apart from that directly connected with defence.

#### EFFECT ON CAPITAL VALUES

In a free market economy changes in the long-term rate of interest (for example, the yield of an investment in consols, at current prices) have their most immediate impact on the value of durable goods or property. If consols fall property value falls in sympathy. In our own closely regulated economy, with uncertainty as to the future course of prices still an important factor, the consequences of a change in interest rates may not be so obvious or striking. Some fall in property values is, however, almost certain to take place. One of the major effects of the rise in interest rates is likely to prick the bubble of real property values, with their constant tendency to rise.

Thus, some houses, the older ones to start with, and the newer ones later, will begin coming on the market at much more reasonable figures. The buyer, and not the seller, will now be in the stronger position. But if a buyer can hope for a house already in existence at a fair price, he is so much the less likely to build at an exorbitant one. The builder will find himself in a scissors of falling values and still rising costs.

The same argument applies to certain other types of building, where existing premises happen to be available for adaptation to the desired use, but not, of course, in regions which are growing rapidly. Rising costs will put finished new buildings outside the expenditure that can be authorized or met, in view of falling property values.

#### CHANGING TYPES OF DEMAND

Some large sections of effective demand will indeed remain to be satisfied. Defence has already been mentioned, and there are many civilian needs, the money for them being available out of public or private funds. The capital in the hands of private persons, though not at all evenly distributed throughout the country, is still large, and as wealth tends to be concentrated in the south, a relative shift of demand from the north to the south is therefore quite likely.

But, in addition to the initial effects of rising rates on the ability or desire to borrow, and on capital values, there is the possibility of a downward spiral of prices developing. Once prices do fall buyers may hold off in the hopes of a further reduction. Even those with the necessary capital resources may thus be led to slow down or postpone their plans for investment.

Better quality of building may perhaps be encouraged. Building owners having become economically stronger and, in the light of their need to spend wisely if they spend at all, will perhaps insist upon higher standards of construction. This is also a possible

consequence of greater competitiveness developing for a dwindling volume of work.

#### HOUSING PROSPECTS

The discussion, so far, has necessarily been speculative and general; the important point is that there has been a bigger change in economic policy than is immediately obvious, and one which will have very marked results if it is consistently pursued. Housing policy, on the other hand, taken as a whole, can be changed only very slowly, and the policy-makers have to work within narrow limits; despite rather grandiose statements on the number of houses to be built, not much change is going to be noticeable for at least twelve months.

Last year nearly two hundred thousand houses were completed in Great Britain, but nearly twenty thousand more (*i.e.*, 220,000 in all) were started. It would be surprising if many more than two hundred and thirty, or perhaps two hundred and forty, thousand houses could be completed in the current year. Nor are the circumstances at all propitious for raising this figure very much in 1953.

The much sounder line of advance is now by way of the credit policy. There are many arguments to bring against the adoption of such a policy, but once this policy has been initiated the least that can be hoped is that it will be allowed to continue long enough to reduce building costs. For any impartial review of these costs over the last seven years will show that they have increased *pari passu* with the general inflation of prices, as indeed they did in the earlier post-war inflation of 1919-20. The first step towards adjusting the inflation has been taken. If prices in general come down the building costs will fall too. Then will be the time to launch the building programmes that are now having to be postponed or abandoned.

The process of deflation is not, however, a pleasant one at any time, least of all when the country is politically divided and when the burden of rearmament is increasing. It may be that the policy is not persisted in to the point where costs all round are adjusted downwards; as far as building costs are concerned, enough would perhaps have been achieved if they could be stabilized for a period. Final costs would then bear a closer relationship to tender prices. Firm prices might even be quoted; and the industry could escape, at least in part, from the confusing economic troubles which have for so long hindered the best technical progress from being generally realized. But such a stabilization of costs will itself require a considerable measure of guidance from the Government as well as of planning within the industry.

IAN BOWEN



# Save with prestressed concrete

## CLEAR FACTS

**General** Prestressed Concrete floors and roofs offer the best opportunities to save money as well as steel. ALL Prestressed Concrete floors use about 75 per cent. less steel than ordinary R.C. floors. For spans over 12ft. the DEPTH AND WEIGHT are about 25 per cent. less, and the COST IS GENERALLY LOWER.

**Long spans** 85 per cent. of steel is saved by using Prestressed Concrete for floors up to 25ft. clear span, and roofs up to 30ft., instead of the orthodox construction of R.C. slabs and supporting R.S.Js. Besides giving an uninterrupted soffit, this method is usually cheaper.

**Maximum economy** is obtained by utilising **STANDARD UNITS ALREADY COMPETITIVELY AVAILABLE.** Bison Floor and Roof Units, both R.C. and Prestressed, are standard and are mass produced throughout Great Britain. Hundreds of thousands of yards of Bison Prestressed have been laid since 1948, including buildings erected by the Ministry of Works and the London County Council. They are being fixed every day in flats, schools and factories throughout the country.

**Thirty years' proof** Bison Units have been developed in a competitive market over a period of more than thirty years, the application of Prestressing being one of the steps in design to take advantage of the latest knowledge available.

Bison Units can be designed to be combined economically and efficiently with R.C. or Prestressed frames.

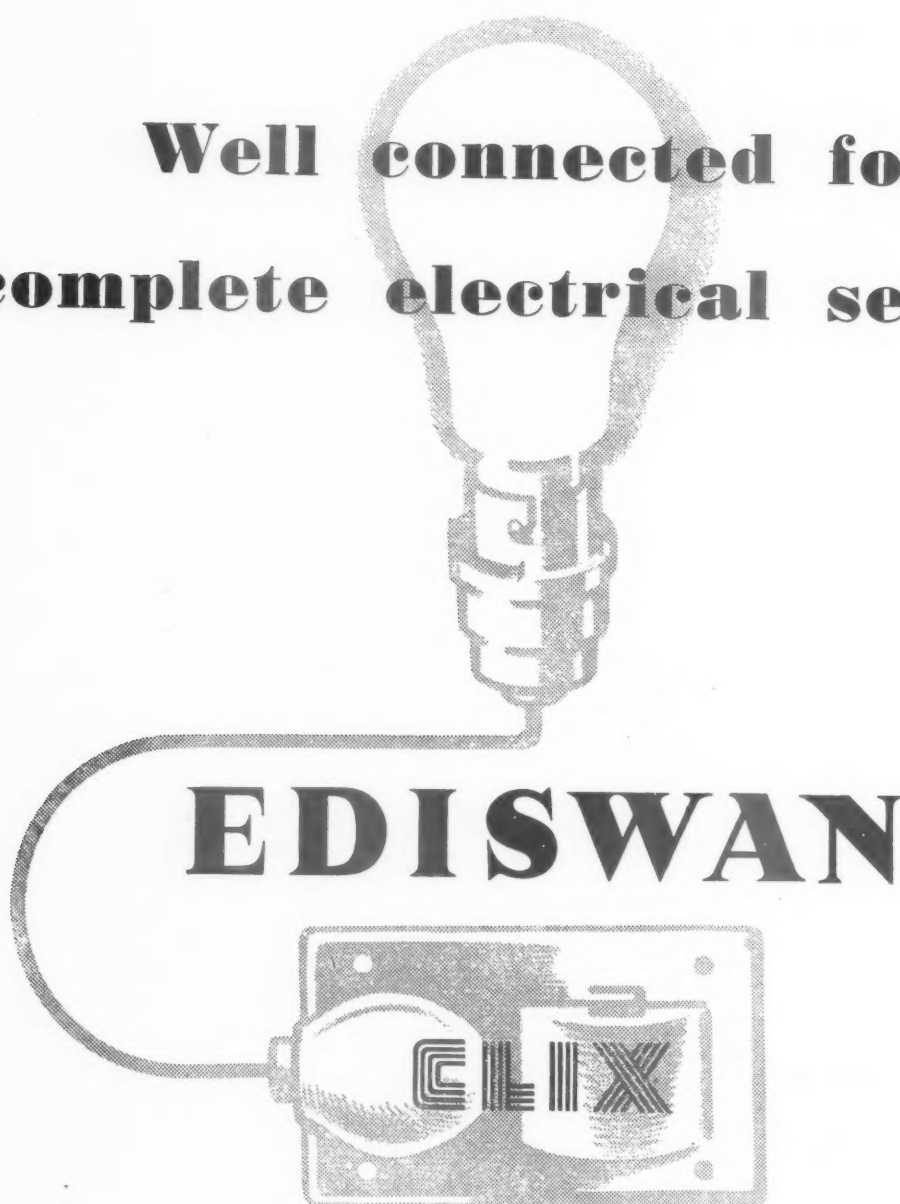
Bison Units are **CONSTRUCTIONALLY COMPLETE**—there are no other separate parts.

Bison is 100 per cent. British designed by BISON engineers.



An advertisement of **CONCRETE LIMITED**

**Well connected for  
complete electrical service**



Clix and Genacco switches and accessories are now made and distributed under the title "Ediswan Clix." The linking of these two famous names now enables The Edison Swan Electric Co. Ltd. to give the most complete electrical service — lamps, lighting fittings, cables—right down to the final switch. All supported by the resources and experience of The Edison Swan Electric Co. Ltd.

THE EDISON SWAN ELECTRIC CO. LTD., 155 Charing Cross Road, LONDON, W.C.2

*Member of the A.E.I. Group of Companies*

E. 1

## AN ECONOMICAL OPEN FIRE

The Replacement Fire, illustrated on the right, has been developed by Hurseal, Ltd. It is based on a project worked out by the Domestic Appliances Section of the British Coal Utilization Research Association in 1947. At present the fire is in prototype form and is undergoing trials. It is claimed that the fire burns only  $\frac{1}{2}$  to 1 lb. of coal per hour in a room of average size. When compared with conventional open fires this represents a saving of more than 60 per cent. The fire consists of an 18 gauge sheet steel panel, narrowing at the top. This fits into a normal open fireplace and encloses the existing grate. The back of the fireplace is filled in with asbestos sheet with a small flue hole near the top. A damper in the flue pipe controls the rate of burning. (Photograph, by courtesy of Picture Post.)



## NEWS FROM THE USA

A new feature, which will appear from time to time, with reports of new products and new techniques from the American building industry.

Liquid vinyl plastic, used by the army and navy to form a protective skin over aeroplanes and equipment, is now being used in the USA to waterproof walls and roofs, to repair cracks, and to provide a non-slip floor finish. The material can be applied with a spray

gun and can be obtained in a variety of colours and textures.

A single skin, according to a report in *Architectural Forum* (USA, Jan., 1952, p. 133), "sprayed on plain brick walls" will "provide an economical and easily maintained surface." Applied in three skins, including a top layer of aluminium impregnated plastic, the material can be used as a roof covering. The cost of such a covering is stated to be 22 cent per sq. ft., while interior plastic wall coverings cost from 18 to 35 cent per sq. ft. The material can be sprayed quickly, dries quickly, and is highly resistant to the effects of thermal movement.

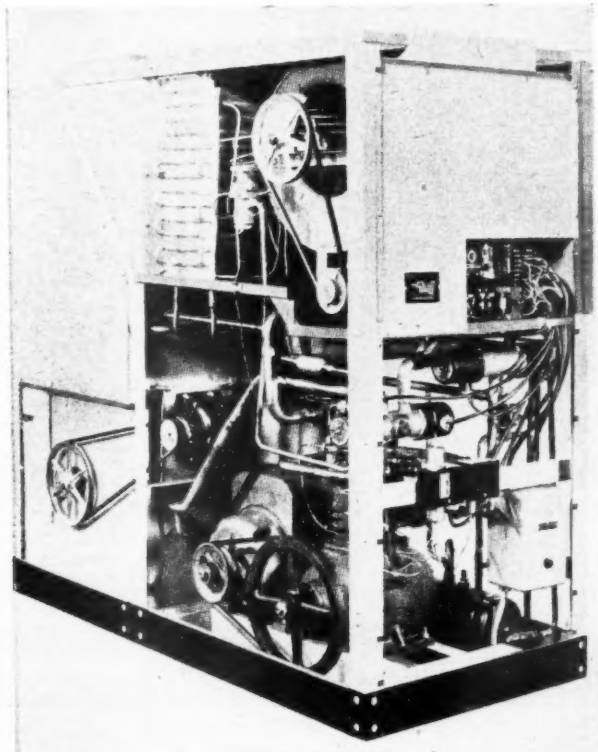
The combined heat pump and air-conditioning plant illustrated below is

being produced in the USA by the General Electric Co. of New Jersey. The plant is in one compact unit, the pump is driven by electricity and the action is reversible, so that warmed air can be provided in winter, and cooled air in summer.

An automatic nailing machine, also manufactured in the USA, can be hired by contractors there, complete with qualified operator. According to a report in *Progressive Architecture* (USA, Jan., 1952, p. 101) this machine drives a minimum of 100 nails per minute. On flooring (6 in.  $\times$  1 in. at 16-in. centres) 5,000 sq. ft. can be nailed per day. Operated by compressed air, the machine is guided by the operator by means of a foot stirrup.



Left, a workman guiding with his foot an American automatic nailing machine. Below, spraying liquid vinyl plastic as a roof covering. Right, the General Electric Co. of New Jersey's combined heat pump and air-conditioning plant.





# This Specialized Age

## No.8 The Ophthalmologist

*One of the most complicated and sensitive organs of the human body is the eye and the ophthalmologist, who specialises in the science of its anatomy and physiology, devotes his abilities, gained after years of application and study, to combating affliction and discovering cures for any diseases which may attack human sight.*

★ ★ ★

This is the age of specialization. With the advance of modern knowledge, no one man is able to excel in everything and in the field of human endeavour the final product is inevitably the result of co-operation by specialists. So it is with architectural planning. Working under the captaincy of the architect, the team of specialists all play their part and take responsibility for different sections of the project. Over the years, Lockhart Equipment Ltd., have gained a reputation as specialists in the planning and equipping of Industrial Canteens, Hotels and Restaurants. Experienced technicians are at all time available to provide specialist service to the architects, which includes the preparation of layout plans and the submission of appropriate quotations, whether it be for a completely new installation or the reorganisation of existing facilities. Lockhart Equipment Ltd., offer a fully comprehensive service whereby every item of catering equipment from the largest refrigerator down to the smallest piece of crockery, cutlery, furniture, linen, etc., is planned for and supplied so that the whole unit can be handed over complete and ready for operation.

*Everything for the Caterer*

**LOCKHART**  **EQUIPMENT**  
LIMITED

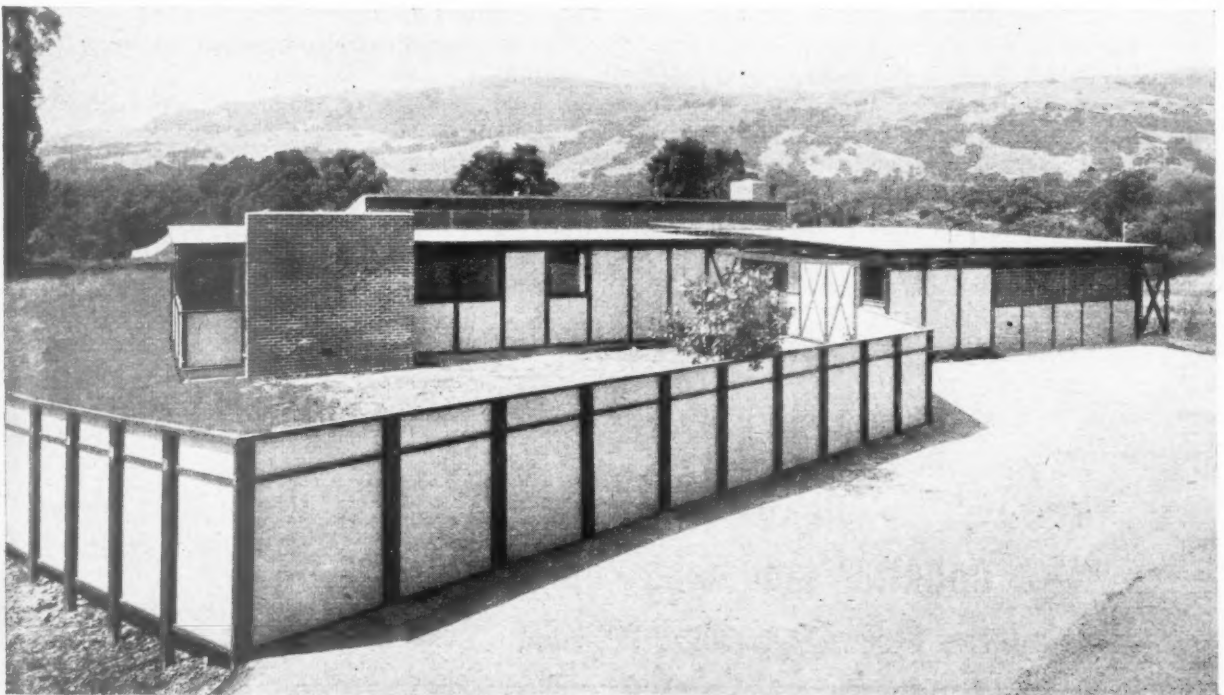
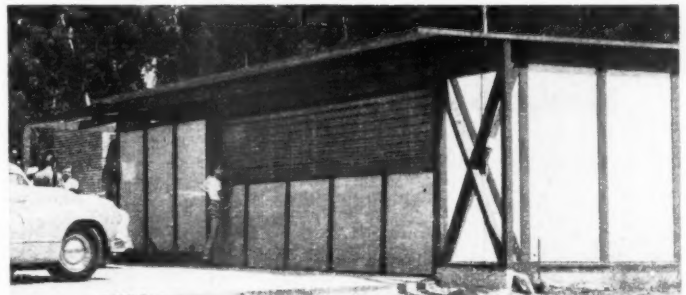
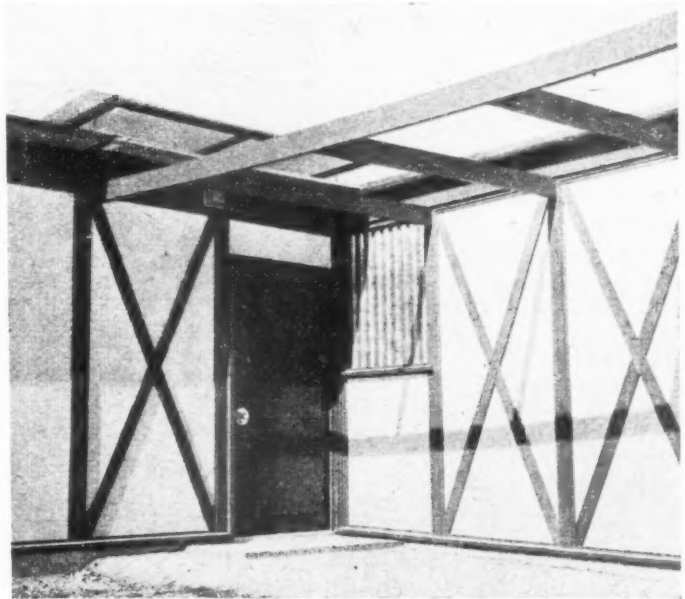
SPECIALIST CATERING EQUIPMENT ENGINEERS AND SUPPLIERS

**LOCKHART EQUIPMENT LTD., 72 Berkeley Avenue, Reading. Tel.: Reading 4847 (4 lines)**



## HOUSE OF PLASTIC MATERIALS IN CALIFORNIA

A house constructed almost entirely of reinforced laminated plastics, has been completed recently at Danville, California. The architect was Floyd Comstock. It is claimed that the plastics used are cheaper than conventional materials and are expected to last longer. The house is fireproof, and not liable to warp or be damaged by termites or mildew. The roof and the ceiling consist of the opposite sides of the same laminated sheet of asbestos fibre. The same is true of the outer and inner wall surfaces. In both cases the asbestos fibre panels are nailed to wooden studs with the butt-ends fused together by means of plasticized cement. The panels are two inches thick and are said to have adequate insulating properties. The house, which contains eleven rooms, has a concrete foundation which contains two plastic pipes carrying warm and cool air in tunnels running on the longitudinal axis. The material used for the pipes is compressed alsynite fibreglass. As it is translucent and can take a variety of colours, it is used elsewhere. In a maize colour, it forms a clerestory window, seen in the photograph below, and the window near the main entrance, top right, which also shows the wall construction. The photograph, on the right, shows the garage door where the material is used for its translucency and lightness.





## Decisive stroke solves knotty problem

*In Gordian Knots or Heavy Duty Cooking*

ZEUS had spoken. The oracle was quite definite. Whoever could undo the knot that bound King Gordius's chariot-pole on to its yoke, would be the master of all Asia.

Alexander (whom some talk of) had ambitions that way — but the knot was a really knotty problem. So he smartly drew his sword and slashed the Gordian knot through. In the ancient world, this was good evidence that Alexander must be irresistible.

Time and again, he who hesitates is lost. For instance, if you order Falkirk Cooking Equipment *now*, then you will get it *now* — and at the very reasonable *current price*. Just think what a decisive stroke that would be for your budget!

### DECISIVE FACTS ABOUT FALKIRK

Equipment for Gas, Electricity, Oil, Steam and Solid Fuel

Really tough cast-iron construction—will last for years  
Efficient modern equipment means less work for small staffs

No weak links, a complete and balanced range of equipment

Specially designed installation and plans for each customer

Price most competitive

If a new kitchen is wanted, *now* is the time to design it

*Find out NOW about*

**FALKIRK**  
**HEAVY DUTY**  
**COOKING EQUIPMENT**

*for Hotels, Restaurants and Canteens*



*Please write for illustrated leaflet to*

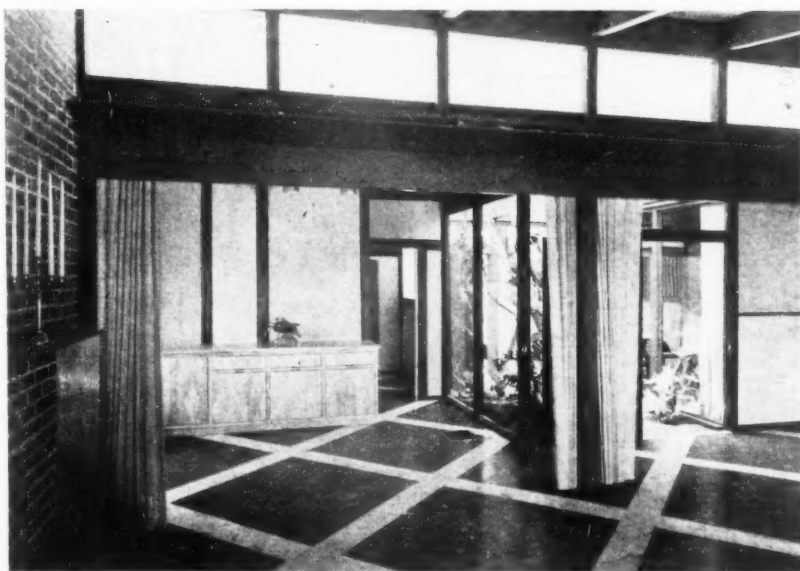
THE FALKIRK IRON CO. LTD., FALKIRK, SCOTLAND  
or Mortimer House, 37/41 Mortimer St., London, W.1  
or 40 Hanover Street, Leeds, 3  
or 18 Leigh Street, Liverpool, 1

(Proprietors: Allied Ironfounders Limited)



## CALIFORNIAN PLASTIC HOUSE (continued)

On the right is the view from the living room, showing the indoor-dining room; the floor is covered with asphalt tile cemented to concrete. At the top is a part of the clerestory. The photograph below shows the entrance patio, also seen from the living room. Overhead is a "floating" roof in rose-coloured alsynite which transmits only the sun's infra-red, or warm rays. The roof can be raised or lowered. Beyond the patio, a porch canopy of aquamarine alsynite transmits only cool rays. The house cost 5.02 dollars per square foot.



Readers requiring up-to-date information on building products and services may complete and post this form to *The Architects' Journal*, 9, 11 and 13, Queen Anne's Gate, S.W.1

## ENQUIRY FORM

I am interested in the following advertisement appearing in this issue of "*The Architects' Journal*." (BLOCK LETTERS, and list in alphabetical order of manufacturers names please).

.....

.....

.....

.....

Please ask manufacturers to send further particulars to:—

NAME .....

PROFESSION or TRADE .....

ADDRESS .....

.....

.....

AJ.10.4.52







'Royal Flush' is our Trade Mark for the highest grade of Plywood Flush Doors veneered to architects' specifications.

Top photograph by courtesy of Desmond Tripp Ltd.

## "ROYAL FLUSH" DOORS

(Guaranteed without qualification)  
for Bristol's Colston Hall.

The Colston Hall, one of the two large concert halls to be erected since the war, is another addition to our long list of important contracts. 'Royal Flush' doors are fitted throughout.

J. Nelson Meredith, F.R.I.B.A., City Architect, Bristol. T. S. Singer, A.R.I.B.A., A.M.T.P.I., Senior Assistant Architect in charge.



HEAD OFFICE:  
BOLD SAW MILLS, WIDNES, LANCs.

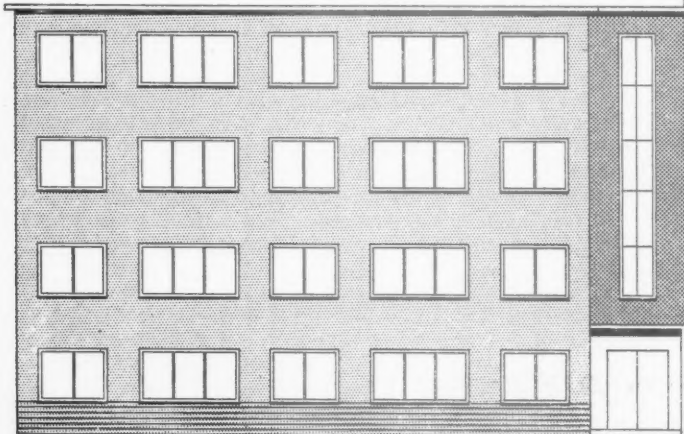
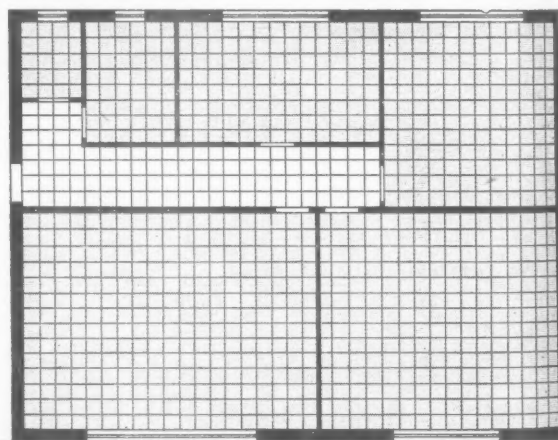
Branches at:  
MANCHESTER • DUDLEY • LONDON • GLASGOW  
COVENTRY • HANLEY • BRISTOL • NOTTINGHAM  
KETTERING

20

## ACCOTILE DECORATIVE FLOORING TILES

With eight plain and eleven marbled colours to choose from, Accotiles offer great scope to the architect with imagination. They are ideal for housing, schools, hospitals, canteens, etc., and form a hygienic floor attractive to the eye and easily kept clean. We are in a position to carry out contracts all over the country at very competitive prices, and are convinced that these tiles are the finest of their kind on the market. Please send for details.

THE NEUCHATEL ASPHALTE CO. LTD.  
58, Victoria Street, London, S.W.1



lvii



GLASGOW • EDINBURGH • NEWCASTLE • MANCHESTER  
BIRMINGHAM • PORTSMOUTH • PLYMOUTH • FROME



## THE INDUSTRY

*From the Industry this week  
Brian Grant reports on a new  
method of fixing laminated sheets,  
a plastic conduit, grills of cane,  
floor tiles in new colours, synthetic  
paint and a system for easy  
drawing.*

### FIXING PLASTIC SHEETING

An entirely new method of applying laminated plastic wall panelling has been used in the construction of a new BBC canteen at Bush House. The panelling has been carried out in  $\frac{1}{8}$ -in. "Formica" veneered grey linette for the flat surfaces and bird's-eye maple wood grain for curved doors. The main interest of the job is that the laminated plastic veneers have been bonded with a latex-rubber adhesive direct to cement-rendered walls with no cover fillets, supporting grounds or backing boards (affording considerable economy in application costs). Central supporting columns, 8 ft. high and 2 ft. in diameter have also been successfully veneered with "Formica."

By applying them directly on to the wall surface, the "Formica" panels can be formed to the required curves on the spot, whereas when a plywood backing is used both the backing board and the veneer have to be preformed at considerable cost in special veneer presses before being taken to the site. There are V joints between the panels to relieve the large areas of panelling. (Permatops Ltd., 12, Priests Bridge, London, S.W.15.)

### PLASTIC CONDUIT

Faced with the shortage of steel tube and the extreme difficulty of finding galvanized conduit, readers may be interested in "Egatube" plastic conduit, which is avail-

able in  $\frac{1}{4}$  in.,  $\frac{1}{2}$  in. and 1 in. diameters at prices varying from 49s. 3d. to 106s. 6d. per 100 ft. All the usual fittings (also in plastic) are produced. Alternatively, the tube can be threaded for use with metal fittings, the only proviso being that a good die not previously used on steel tube must be used. Bends can be made by warming the tube (blow lamp or hot water) and supports are necessary at intervals of 3 or 4 ft. As it resists acid, the conduit is suitable for use in chemical works and where there are other corrosive atmospheres, but it is not recommended for use in temperatures exceeding 130° F. (Ega Electric Ltd., Holyhead Road, Wednesbury, Staffs.)

### RADIATOR GRILLS IN CANE

The shortage and high price of metals has led to a search for alternative materials for the manufacture of such accessories as perforated radiator grilles and air vents, etc. One firm of craftsmen has been for some time making fittings of this kind in woven cane with considerable success. This material, more often seen in chair seats and backs, has qualities which make it suitable for a wide variety of uses. It is durable, easily kept clean, variable in design and shape, and can be painted or stained to suit any requirements. Delivery is also quick and the cost is low. Apart from radiator grilles, air vents, etc., it is easy to imagine a number of other applications. The material can be obtained in flat strip in a wide range of thicknesses and varying from 1.5 mm. wide to 3.8 mm. wide. Centre section cane (round) is available from 1.75 mm. to 3.5 mm. (George Prior (Chair Cane) Ltd., 2, Hugh Street, London, S.W.1.)

### COLOURED FLOOR TILES

In co-operation with the British Colour Council, Semtex Ltd. have produced the "Vinyl" floor tile in an entirely new range of colours. Each colour in the range of 18 patterns is matched with the appropriate shade in the Council's dictionary of colours for interior decoration, including delicate tones not previously used in flooring materials. Introduced as a complement to the "Semastic" decorative tile, the "Vinyl" tile is particularly suitable for kitchens, bathrooms, cocktail bars and lounges, and for public rooms generally. The tiles can be laid over wooden sub-floors, and are free of building licence, which makes them especially suitable for reconstruction work.

(Semtex Ltd., 185 Finchley Road, London, N.W.3.)

### A NEW SYNTHETIC PAINT

Most architects know that quite a number of the paints now on the market contain a synthetic resin base. Before the war only a few manufacturers were experimenting on these lines. Linseed is short, and the Korean war has cut off supplies of tung oil. As it is necessary to save foreign currency there is a need to develop synthetic paints which can be made from raw materials, such as coal and oil, which are available in this country.

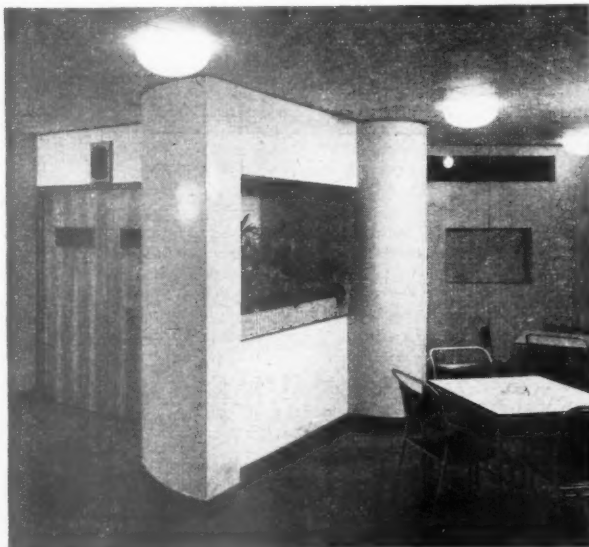
Styrene based paints are now coming on to the market and have the advantage of drying quickly. They will set free of dust and proof against frost in two or three hours, so that painting can often be carried on in winter when the use of paints based on natural oils would be impossible. The difficulty in producing styrene paint medium is making it mix with the other drying oils. This problem has now been solved by a large firm of paint manufacturers, who have had a factory built at Partington, Cheshire, where the styrene will be produced on a commercial scale. One example of these styrene paints is "Mirrosa" enamel, for which the manufacturers claim a considerable saving in labour and material costs. When considering the cost of painting it is better to think in terms of the yearly bill rather than the price per gallon. It is claimed that the paintwork of houses in a large UDC painted  $3\frac{1}{2}$  years ago with "Mirrosa" enamels is still in a very good condition.

The cost of "making ready" and applying paint is so great, compared with the cost of the paint itself, that money spent on a high quality paint is seldom wasted. (Sir W. A. Rose & Co. Ltd., Shepherds Lane, E.9.)

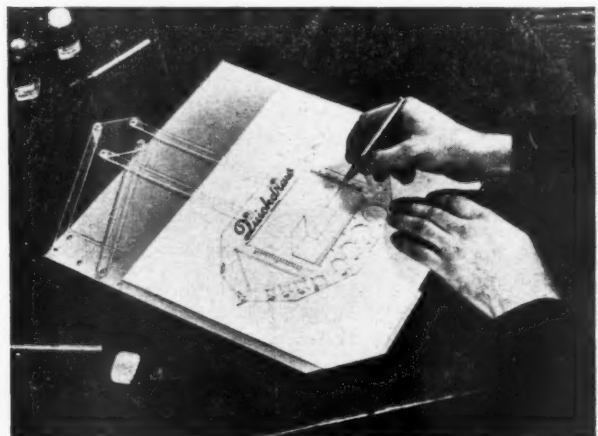
### SIMPLIFIED SKETCHING

The "Quickdraw" has been designed to help in the production of rapid sketches. It has a board 14 in. square and a transparent template mounted on a parallel motion linkage. It will accommodate paper up to 13 in. by 10 in. and the case has a pocket to hold paper and oddments. The instrument operates in roughly the same way as full-size drawing machines. It is easy to use and vastly more efficient than sketching on the backs of envelopes. (The Quickdraw Co., 127, Gunnersbury Avenue, London, W.3.)

BRIAN GRANT



*Left, part of the new BBC canteen at Bush House, where Permatops has applied plastic sheet by a new method. Below, the "Quickdraw" machine for easy drawing.*



# Buildings Illustrated

*Bridgend Paper Mills for Wiggins, Teape & Co. (1919) Ltd.; at Llangynwyd, Nr. Bridgend, Glamorgan. (Pages 456-459.)*  
 Architect: Henry Budgen & Co. (now P. G. Budgen & Partners). Consultants: British Steel Reinforcement Co. Ltd. Electrical Consultants: J. D. Crozier. Quantity Surveyors: Henry Budgen & Co. (now E. R. Budgen & Partners). General contractors: Richard Costain Ltd. (superstructure); G. Percy Trentham Ltd. (siteworks). Clerk of works: H. W. Chaplin. General foreman: J. C. Norris. Sub-contractors: excavation, Richard Costain Ltd.; foundations, Pressure Piling; dampcourses, George M. Callender & Co. Ltd.; asphalt, John Dickinson (Bolton) Ltd.; reinforced concrete, G. Percy Trentham Ltd.; bricks & tiles, Tondur Brick Co. Ltd.; artificial stone, Penarth Concrete Co. Ltd.; structural steel and iron staircases, Braithwaite & Co. Engineers Ltd.; fireproof construction and doors, Mather & Platt Ltd.; special roofings, William Briggs & Sons Ltd.; glass, Pilkington Bros. Ltd. (glass blocks), Bristow Wadley & Co. Ltd.; patent glazing, Mellows & Co. Ltd.; woodblock flooring, Robinson David & Co. Ltd.; floor plates, Stelcon (Industrial Floors) Ltd.; plastic tiles, Semtex Ltd.; asphalt, John Dickinson (Bolton) Ltd.; waterproofing materials, Tretolene Ltd. (to precast stanchion enclosures); central heating, Carrier-Ross Engineering Co. Ltd. (Consultants); cooking and kitchen installation, Benham & Sons Ltd.; electric wiring, Holliday Hall & Stinson (Western) Ltd. (contractors); electric light fixtures, General Electric Co. Ltd.; ventilation, Carrier-Ross

Engineering Co. Ltd.; plumbing, Richardson's Power Piping (machines and office block main runs), Messrs. J. C. Hitt of Bridgend (domestic in offices, etc); sanitary fittings, Associated Clay Industries Ltd.; stairtreads (terrazzo) Cardiff Mosaic Ltd.; casements and window furniture, Henry Hope & Sons Ltd.; telephones, G.P.O.; folding gates, Bolton Gate Co. Ltd.; rolling shutters, metalwork, Haskins; sunblinds, J. Avery & Co.; plaster, Messrs. Hawkins & Holmes; joinery, Messrs. Herberts; furniture (laboratory fittings), A. Gallenkamp & Co. Ltd.; shrubs and trees, William Wood & Sons; office fittings, Roneo Ltd.; cloakroom fittings, James Gibbons; lifts, Bennie Lifts Ltd.; cranes, Vaughan Crane Co. Ltd.; water supply, Mid-Glamorgan Water Board.

"No-Fines" Concrete Houses at Eastcote, Middlesex. (March 27, 1952, pp. 388-389.) The paint used for these houses was "Syn-dura," Grade "E"—a new plastic emulsion coating, manufactured by Fleetwood Paints Ltd., Stet House, Park Gate Road, S.W.11. The sub-contractor for the painting was C. Hastings of West Drayton. (General contractors: George Wimpey & Co. Ltd.)

## Announcements

The dismantling of the Dome of Discovery and ten other buildings at the Festival of Britain site has been entrusted to George Cohen, Sons & Co. Ltd., the engineers and iron and metal merchants, who are the parent concern of The 600 Group of Companies.

Mr. Darcy Braddell, F.R.I.B.A., has taken into partnership Mr. P. H. Laurence, A.R.I.B.A. The practice will continue at

6, Bedford Row, W.C.1, under the style of Braddell & Laurence.

Mr. D. C. Denton-Smith, L.R.I.B.A., 40, Regent Street, Cambridge, has taken into partnership Mr. Norman Russell, A.R.I.B.A., and Miss Mary H. Davey, A.R.I.B.A., from which date the practice will be continued under the style of "D. C. Denton-Smith & Partners, Chartered Architects: Surveyors," the office address and telephone numbers remaining unchanged.

Mr. C. J. Pell, B.Sc., M.INST.C.E., M.I.STRUCT.E., consulting engineer, of 4, Manchester Square, W.1, has taken into partnership Mr. M. M. Khan, B.Sc., A.M.INST.C.E., M.I.STRUCT.E., and Mr. F. S. Rowe, A.M.I.STRUCT.E. The firm is now C. J. Pell & Partners.

Messrs. J. W. Gray & Son, Ltd., church spire restorers and lightning conductor specialists, of Franklin House, 37, Red Lion Street, High Holborn, W.C.1, have opened a branch office at 13, Castle Street, Salisbury, Wilts. (Tel.: Salisbury 2750.)

Eeta Insulations, of Bolton, the manufacturers of insulating jackets, have now completed the erection of new workshops, to replace the extensive damage caused by a fire last year, and full production has now been resumed. In addition to the standard range of heat insulating jackets, a new type has been introduced. This is provided with an outer cover of plastic, specially developed to withstand prolonged heat up to boiling point.

## Correction

In a recent announcement made on this page the address of Mr. Frederick Iddison, A.I.A.S., was wrongly given. It is 68, Neville Road, Darlington, Co. Durham.

**PLAN WITH ESAVIAN DATASHEETS**

Specially prepared for Architects, this new folder contains eleven Datasheets showing various applications of Esavian sliding and folding doors, etc. Each type is illustrated by a detail drawing, specification and photograph. If you have not yet received your folder—or require extra copies—please write to

**ESAVIAN LIMITED**

THE **ESAVIAN** PRINCIPLE  
FOR DOORS, WINDOWS, PARTITIONS & FOLDING SCREENS

ESAVIAN HOUSE, 181, HIGH HOLBORN, W.C.1. TEL: HOLBORN 9116. 101 WELLINGTON STREET, GLASGOW, C.2. TEL: CENTRAL 2369

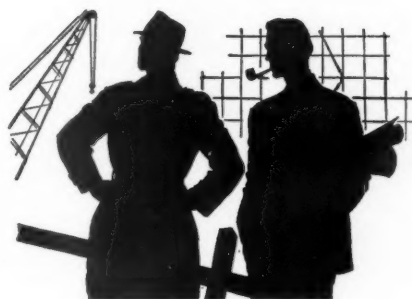
# WILLIAM MALLINSON & SONS LTD

*Timber  
Veneers  
Plywood*

130-150 HACKNEY ROAD  
· LONDON · E.2

TELEPHONE: SHOREDITCH 7654 (10 lines)

## An Eye to the Future



Factory owner: "That hint you dropped about the Town Planning Act looks like saving me a lot of money. So does your advice about assurance. You're a regular one-man Citizen's Advice Bureau!"

When the talk of drains and roads is done, conversation between client and architect often turns to insurance. There is a bond of professional trust involved, which makes the advice of an architect especially privileged. For your clients' information, the United Kingdom Provident is a famous 'mutual' house, all profits belonging to policyholders: 1951 bonuses were 35/- and 37/- per cent. Competitive premiums are quoted for all kinds of life assurance, and fire and accident policies are available through our subsidiary.

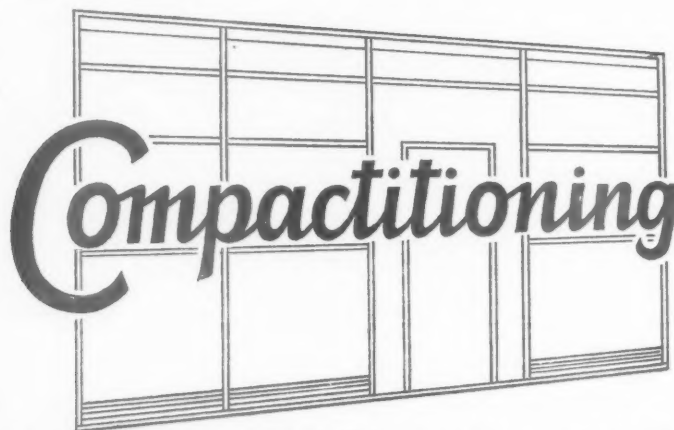
*May we send particulars?*

## United Kingdom Provident



*Your 'Mutual' Friend*

The United Kingdom Provident Institution  
33 Gracechurch Street, London, E.C.3



## THE COMPACTOM SYSTEM OF PARTITIONING



"Compactitioning" is a new word for a new service. It is a system of dividing up interiors of buildings to give economically planned units which can be changed and adapted to meet future demands. The "Compactitioning" system utilizes those materials best suited to the requirements of design and cost.

- *Entirely licence free*
- *Purpose made*
- *Time on site reduced to a minimum*
- *Solid or glazed partitions*
- *Designed for easy dismantling and re-erection*
- *To suit high or low buildings*

Full particulars on request to:

COMPACTOM Ltd.

OXGATE LANE

LONDON N.W.2.

ESTABLISHED 1875

# TRUETT & STEEL LTD

## BUILDING CONTRACTORS

WESTMINSTER

THORNTON HEATH

WHITEHALL 3342 & 4051

THORNTON HEATH 1122/4/5/6



# Charter

## ALUMINIUM WOOD PRIMER

The original *Self-Knotting Primer* that has many advantages over the usual primers.

Suitable for application on all new and old wood, etc., under any paint except cellulose, it can be used successfully as a sealer on asbestos sheeting, etc. Applied over old creosoted

work it will effectively prevent bleeding. It is formulated from finest pigments and is the only aluminium primer containing shellac in a special oil medium. It stops porosity, resists damp, dries with a hard metallic surface and is an almost certain cure for blistering.

**CHARLES TURNER & SON LTD.**  
BLOOMSBURY HOUSE, 165 HIGH HOLBORN, LONDON, W.C.1.

## Enduring Beauty

### OF ENGLISH CRAFTSMANSHIP

1580 is the year of this silver mounted Coconut Cup. The old Tudor craftsmen knew well how to make their work ageless. The qualities of English craftsmanship are strikingly revealed in many world-famous works of enduring beauty. These same qualities of craftsmanship are to be found in many modern English products, and notably so in the Veneers produced by John Wrights, who have been manufacturers since 1866. The beauty and endurance of Veneers depend primarily on the skilful and experienced selection of the timber and on the quality of the cutting. The craftsmen of the John Wright organisation are in the best English tradition.



Victoria and Albert Museum. Crown Copyright

**JOHN WRIGHT  
& SONS  
(VENEERS)  
LTD**

MANUFACTURERS OF  
VENEERS OF ALL KINDS SINCE  
1866

AVON WHARF  
LONGFELLOW ROAD  
MILE END ROAD, E.3

Telephone: ADVANCE 4444 (10 lines)

*Space Heating  
by electricity on "off-peak" loads*



**THERMAL STORAGE PLANT**

**SEE A COMPLETE THERMAL STORAGE PLANT  
ON STAND C.321, B.I.F., CASTLE BROMWICH**

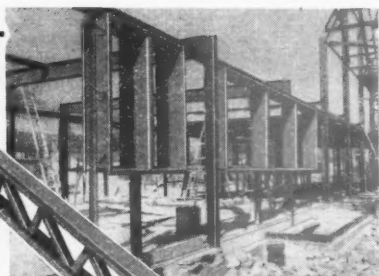
*Designed and Manufactured by*

**G.W.B. ELECTRIC FURNACES LTD., DIBDALE WORKS, DUDLEY, WORCS. Phone: Dudley 4284/5**

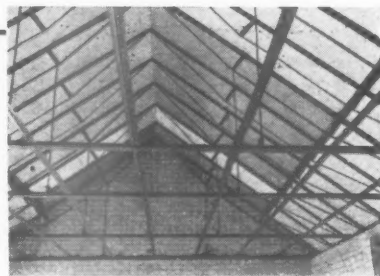
*Proprietors: GIBBONS BROS. LTD., and WILD-BARFIELD ELECTRIC FURNACES LTD.*

M-W.305R

## **YOUR STRUCTURAL STEEL PROBLEMS SOLVED...**

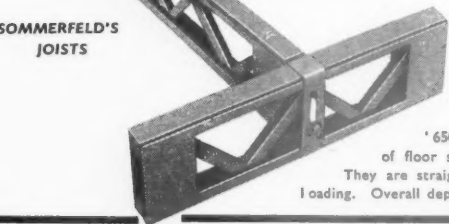


The illustration on the left shows architectural sheet metal-work being incorporated in the early stages of construction of a school for the Surrey County Council.



The 'Type 150' roof consists of trussed rafters supporting a tiling mat, the eaves being finished with an eaves bracket, fascia board and soffit and a ceiling frame is suspended from the roof by hangers. Fire resisting insulating boards can be fixed between the rafters and ceiling are boards secured to the ceiling strips with timber wedges. In a gabled roof this system can be concinnically used up to a 25-foot span.

**SOMMERFELD'S  
JOISTS**

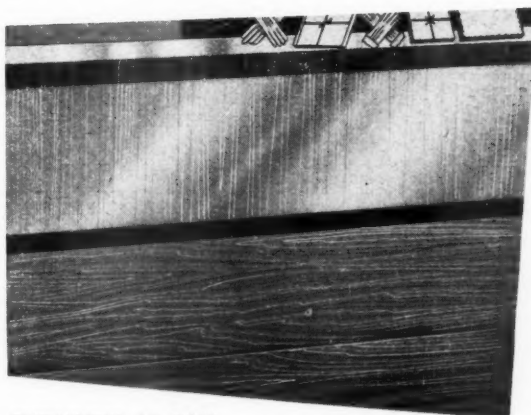
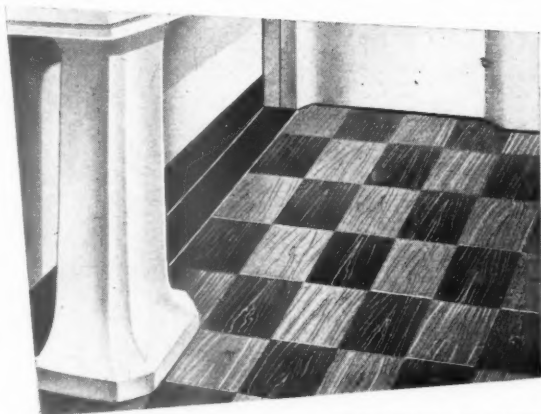


'650' Joists replace timber and allow you to use your 1.6 standards of timber per 1,000 square feet of floor space for wooden floors. **NO WASTE—NO SITE LABOUR—NO WARPING—NO ROTTING.** They are straight and do not squeak. Available in lengths up to 14ft. 6in. for floors of 36 lb./square foot loading. Overall depth, 6½in. Other joists available for different spans and loadings.

**SOMMERFELDS LTD.**  
**WELLINGTON • SHROPSHIRE**  
TEL: WELLINGTON 1000 - 167 VICTORIA ST. - LONDON - TEL: VIC 1000

# PHENCO FLEXIBLE - PLASTIC FLOORING

*For use where traffic is heavy and smart appearance essential*



RESILIENT AS RUBBER—ENDURING AS OAK

What do you look for in a flooring? Colour? Hard-wear? Resistance to a wide range of chemical attack? Resilience? Warmth? Safety? PHENCO has all these advantages combined. It does not creep or buckle, and has as many applications as you care to name. Being available in either roll or tile, it offers you a wide range

★ of designs. PHENCO can be laid with the maximum of ease and the minimum of trouble, and if required we or our agents can lay it for you. Once down, you have a permanently colourful, lasting, practical floor that you can promptly forget about. Write today for fully descriptive literature and *put your foot down—insist on PHENCO!*

## Phoenix Rubber Co. Ltd.

91 BISHOPSGATE, LONDON E.C.2

TELEPHONE: LONDON WALL 3564

TELEGRAMS: PHENRUB, STOCK, LONDON

## Hillestak

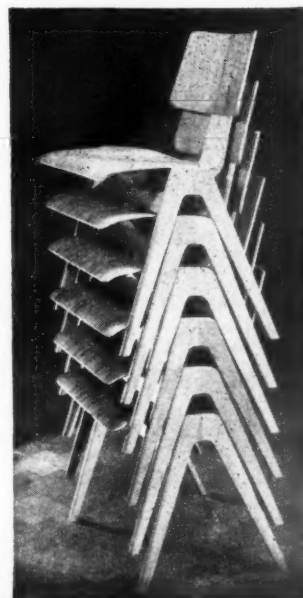
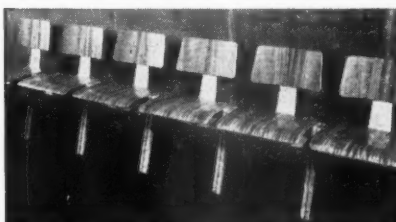


### Stacking Chair

This new stacking chair is eminently suitable for dining or occasional use. The strong construction, easy stacking and low cost make it ideal for massed seating in halls, restaurants, etc.

- Exceptionally comfortable shaped back and seat.
- All wood construction.
- Stacks vertically without overbalancing
- Designed for row seating.

Retail price **60/-** Tax free. Trade discounts. Special discounts for large orders.



Contract cabinet and chair makers

S. HILLE & COMPANY LIMITED, ROMFORD RD., CHIGWELL, ESSEX, Tel. HAlrault 4151 four lines

**Up she goes....**



**overhead & out of the way!**

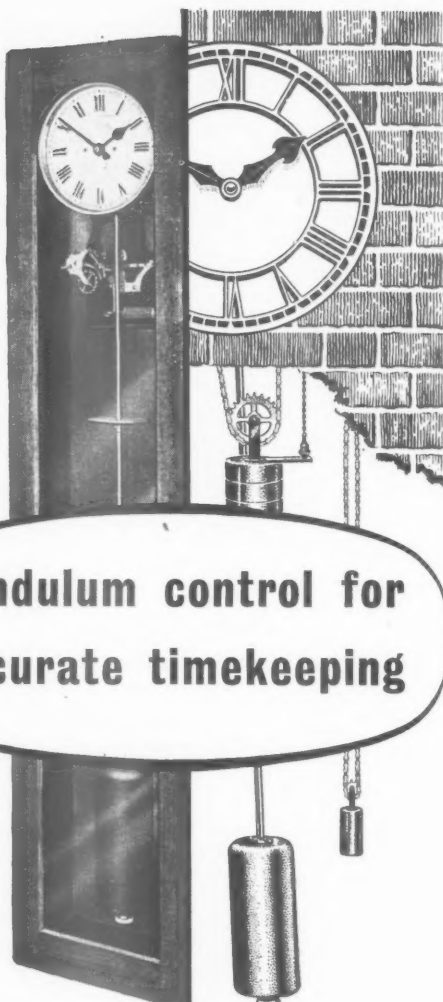


**- with the**  
**ACROW**  
**UP & OVER Garage Door Fitting**

You can now buy this beautifully made mechanism which converts your old-fashioned garage door into the luxury "Up and Over" type at the amazingly low price of £10.6.2.

Send now for fully descriptive leaflet AJ/DF

ACROW (Engineers) LTD., SOUTH WHARF, PADDINGTON, LONDON, W.2  
 Telephone: AMBassador 3456 (20 lines)



**Pendulum control for accurate timekeeping**

Complete accuracy in time keeping can only be assured by pendulum control. The G. & J. electric clock system—consisting of a Master, driving any number of slave dials—works on this principle. Independent of mains supplies, the system can also control time recorders, job costers, programme controllers, and similar apparatus.

Infalible pendulum control is the basis, also, of the G. & J. weight-driven, automatically wound Tower Clock mechanisms. Different movements are available to meet varying local conditions, but all are based on the accuracy of the pendulum movement. Dials of any size can be operated.

*Bellfounders and Clockmakers since 1844*

**GILLETT & JOHNSTON**

Limited

CROYDON



Thornton Heath  
 3221



**NO  
BACK  
ANSWERS!**

All the care taken over a decorative scheme may be wasted if the plaster behind it is left to chance. The backing coat will not give "back answers" if you specify "Sirapite" Browning. Entirely free from injurious alkalis, it attains **COMPLETE HYDRATION IN A FEW HOURS**, and becomes absolutely inert. Other advantages include high covering capacity, good thermal, sound and fire insulation, reduced condensation and a general speeding-up of work.

Avoid "back answers" from plaster by specifying—

# "Sirapite" (REGD) BROWNING

**The Safe**

## PLASTER UNDERCOAT

(Retarded Hemi-hydrate), Class B, type 'a'. Made by the makers of "SIRAPITE" (Anhydrous), Class C. "SIRAPITE" BOARD FINISH (Retarded Hemi-hydrate), Class B, type 'b'. MOUNT-FIELD COARSE PLASTER (Hemi-hydrate), Class A. All conforming to B.S.S. 1191.

*SPECIFICATION BOOKLET on request. Full technical service available.*

**GYPSUM  
MINES  
LTD**

**THE GYPSUM MINES LTD**  
MOUNTFIELD,  
ROBERTSBRIDGE, SUSSEX  
Phone: Robertsbridge 80  
And at KINGSTON-ON-SOAR, NOTTS.

# Tucker

**SHOCKPROOF  
LAMP HOLDERS**

*Specialists in  
Lampholder  
Design  
SINCE 1892*



**A756**  
PORCELAIN INTERIOR  
CORD GRIP



**A754**  
"TITAN" MOULDED  
CORD GRIP



**A731**  
BATTEN MOULDED



**A1671**  
CORD GRIP

**DOUBLE POLE  
PUSH BAR  
SWITCHED  
LAMP HOLDERS**



**A1666**  
SCREWED

**SKIRTED HOME OFFICE  
TYPES**



**A774**  
"TITAN" MOULDED  
CORD GRIP



**A751**  
BATTEN MOULDED



**A1691**  
CORD GRIP  
PUSH BAR

*Used with every confidence for  
the highest class of installation...*

The TITAN A754 all moulded pattern is in a class by itself, with **SOLID PLUNGERS**, **FINGER GRIP SHADE RING**, and **REINFORCED LINER**.

*Note the A756 Porcelain Interior pattern*

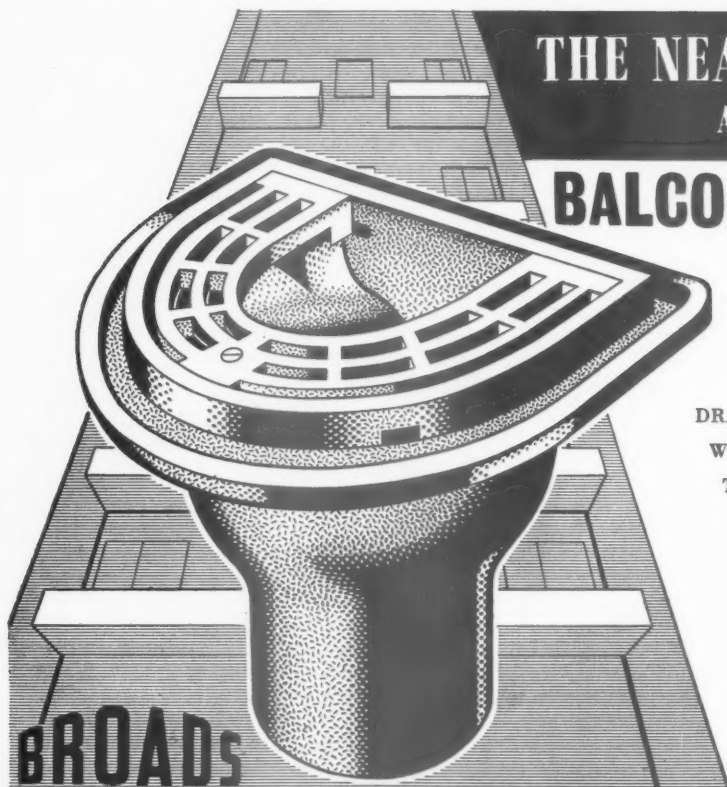
The double pole slow-break push bar mechanism, suitable for A.C. or D.C. use, is of robust construction with very few moving parts.



Home Office skirts in lieu of Shade Ring are available where this protection is required.

**J. H. TUCKER & CO. LTD**  
Kings Road, Tyseley, Birmingham 11

*Makers of First Grade Electrical Accessories since 1892*  
London Office: 2 Newman Street, W.1



## THE NEAT AND SIMPLE ANSWER TO BALCONY DRAINAGE

BROADS PATENT COMBINATION  
BALCONY DRAINAGE UNIT IS  
DESIGNED TO SIMPLIFY THE  
DRAINAGE OF BALCONIES THROUGH  
WHICH THE DOWN PIPE PASSES,  
THUS PROVIDING A NEAT AND  
UNOBTRUSIVE APPEARANCE.

Manufactured in various sizes to suit  
rain-water pipe.

(PATENT APPLIED FOR)

INFORMATION SHEET SENT  
ON REQUEST

**BROADS**

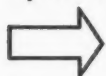
MANUFACTURING CO., LTD. 4 SOUTH WHARF, PADDINGTON, LONDON, W.2. TEL: PAD. 7061 (20 lines)

## Points of Importance

It is vitally important that openings  
through which fire can pass from  
one part of a building to another  
should be defended by

### DREADNOUGHT FIREPROOF DOORS

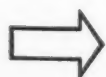
Important points about these doors are:—



They have been tested and approved  
by the Fire Offices Committee and  
the L.C.C.



They are relatively light in weight  
and therefore easily operated.



They are not obtrusively utilitarian  
but combine well with modern in-  
terior decorative schemes.

Illustrated Catalogue on Request.



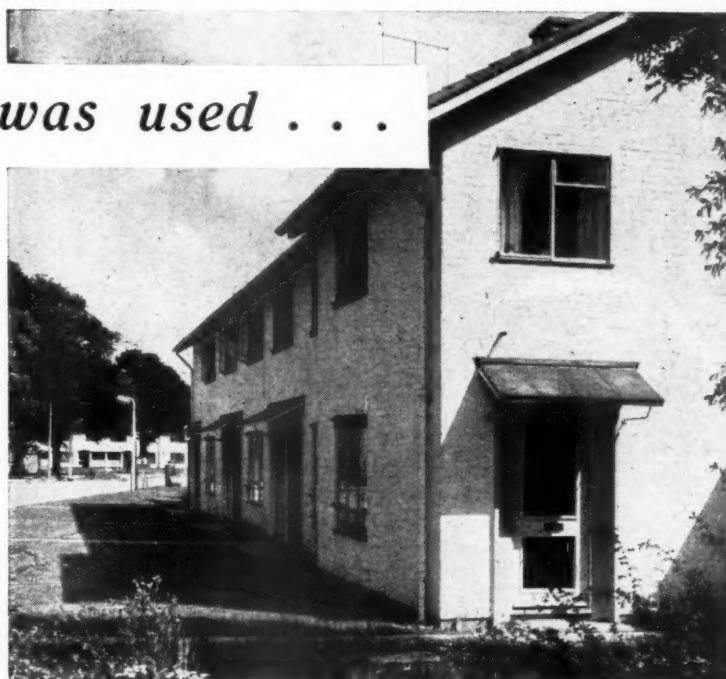
DREADNOUGHT FIREPROOF DOORS (1930) LTD 26 VICTORIA ST. WESTMINSTER S.W.1. Phone ABBey 1411

PLANNED DEVELOPMENT is no empty slogan at Crawley New Town where these trim houses have been designed for rehousing

London families. An added touch of colour, was provided by Tretolin Paint, specified for new exterior asbestos cement fixtures without prior sealing treatment. This coating combines first-class finish with unusual durability under severe weather conditions. Tretolin's waterproof, chemical resistant properties make it an ideal choice, on housing schemes and also in factories where acids and alkalis used in manufacturing processes demand really effective protection of concrete and brickwork.

- ▶ Resistant to acids, alkalis and Industrial atmospheres.
- ▶ Waterproofs external porous brickwork and cement renderings.

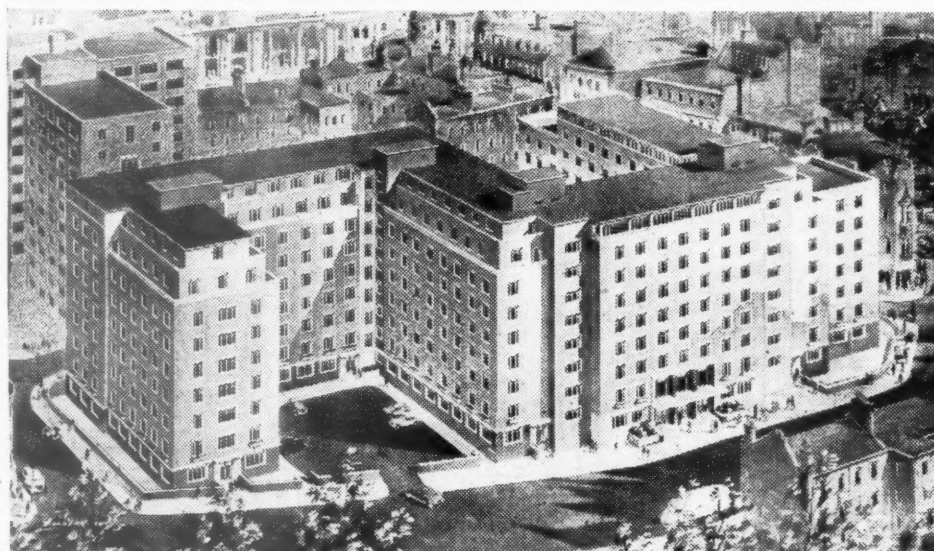
Please write for descriptive leaflet No. 13 (A)



Houses at Crawley New Town. Chief Archt.: A. G. Sheppard F.R.I.B.A., A.M.T.P.I.

APPLIED DIRECT TO NEW ASBESTOS CEMENT, CONCRETE, ETC.

TRETOL LTD., 12/14 NORTH END RD., LONDON, N.W.11. Tel.: SPEEdwell 4621 (5 lines). Works SLOUGH



St. Giles Court, St. Giles High Street, London, W.C.2.

Architects: Lewis Solomon Son & Joseph

(Block by courtesy of Financial Times)

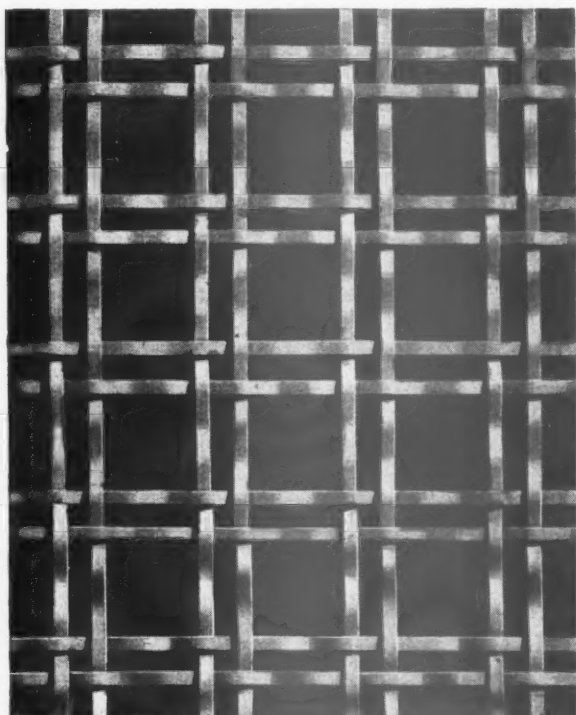
Nearly  
ONE  
MILLION  
Berkhamsted  
Bricks  
were  
used for  
this job

Specify **BERKHAMSTED** Browns and Greys

FOR FLATS • SCHOOLS & OTHER EXTENSIVE BRICKWORK

**BERKHAMSTED BRICK CO. LTD.**

Head Office and Sales Dept.: 85, GLOUCESTER ROAD, LONDON, S.W.7. Telephone: FROBisher 8161 (10 lines). Works: Shootersway, Berkhamsted, Herts.



## HARCO RIBBON WIRE

The artistic effect of Harco Ribbon Wire renders it particularly suitable for use where care of design and appointment are of major importance. Architects will appreciate that it not only screens the unsightly, but allows free circulation of air. The patterns in which Ribbon Wire can be woven, make it the perfect selection for Lift Shaft Enclosures, Ventilating Panels, Radiator Covers, Electric Heater Covers, etc. Illustration shows Pattern No. 1376 W. Other Patterns and full particulars in Catalogue AJ 744.

**Harvey**

**G. A. Harvey & Co. (London) Ltd. Woolwich Road, London, S.E.7**

## Consult a specialist . . .

For over forty years the Jackson Electric Stove Co. Ltd. have been specialists in large scale Electric Cooking Equipment. Consult us for individual items or complete installation, whether you are cooking for two or two thousand.

**It pays to specify**

*Jackson*

**for large scale Electric Cooking Equipment**

BOILING PANS  
CHEFS' RANGES  
COOKERS  
FISH FRYERS  
GRILLS  
HOT CUPBOARDS  
PASTRY OVENS  
ROASTING OVENS  
STEAMING OVENS  
URNS

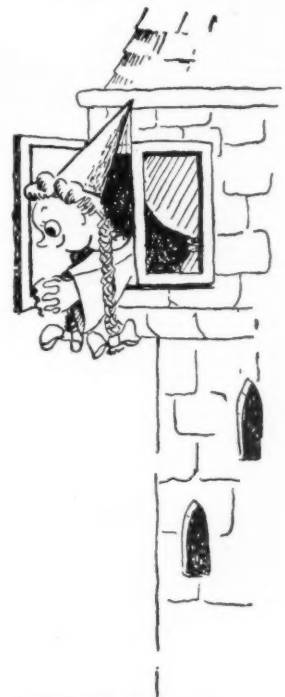
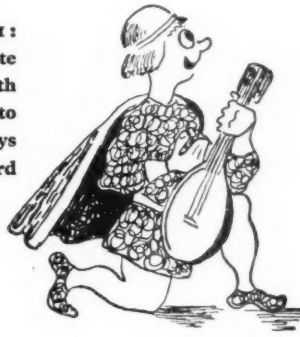
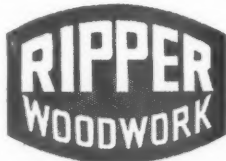
THE JACKSON ELECTRIC STOVE COMPANY LIMITED, 143 SLOANE STREET, LONDON, S.W.1



*You can't pass by this window!*

RIPPERS are now producing the new wooden casement window, made with heavier sections in accordance with the recently revised British Standards Specification. The high quality of Ripper Standard joinery has long been appreciated by the building trade—and Rippers see to it that the confidence of architects and builders is more than justified.

This new window conforms to BSS 644: Part 1: 1951, and is available from stock in the complete No Bar, Lay Bar and Full Bar ranges—with either flush or projecting sills. Also made up to order into 45° or 60° cant bays, 90° square bays or 22½° segmental bays, or attached to standard door frames to form winglights.



RIPPERS LIMITED,  
Castle Heddingham, Essex.  
Telephone: Heddingham 191 (4 lines)  
London—9, Southampton Place (Suite 16) W.C.1.  
CHAncery 8306/7

# FIREPROOF FLOORS

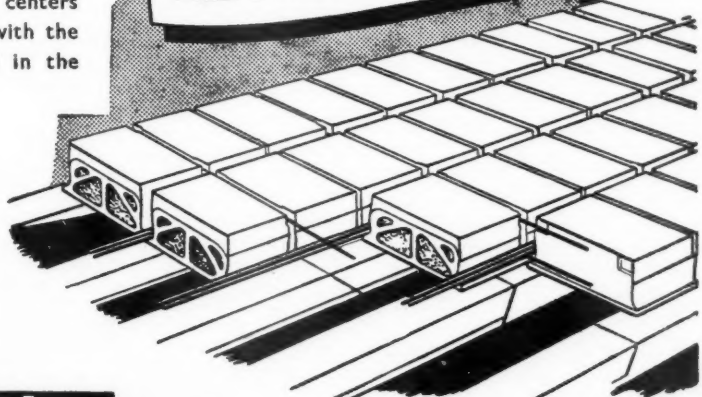
★ THE Smith Two-way reinforced fireproof floor can be employed for any flooring or roofing requirement.

THE employment of patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.

WORKING space for other trades not obstructed by props and timber shuttering.

Midland Licensees:  
Parkfield Concrete Products Co. Ltd.  
St. Peter's Road, Netherton  
Phone: Dudley 4315

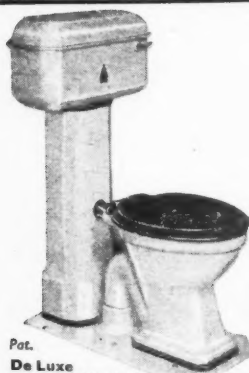
WITH THE UNIQUE  
TELESCOPIC CENTERING IN  
ALL TYPES OF BUILDINGS



# SMITH'S

**FIREPROOF FLOORS LTD**  
(DEPT A) IMBER COURT, EAST MOLESEY, SURREY  
Telephone: EMBERBROOK 3300

## 2 WAY REINFORCED FIREPROOF FLOORS



Pat.  
De Luxe  
model £54 9s. 0d.

## NO DRAINS? Then here is good news for you <sup>6</sup>DESTROL<sup>9</sup>

*Hygiene*

Solves the sanitation problem in a new way, bringing the comfort and convenience of the Town Dweller to every home or factory where main drainage is unavailable.

★ ODOURLESS AND GERM FREE  
★ NO MANUAL HANDLING

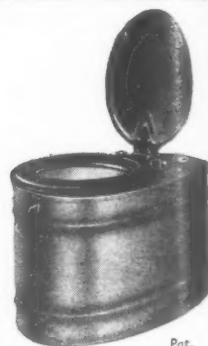
★ INDEPENDENT OF WATER SUPPLIES  
★ INEXPENSIVE AND SIMPLE TO INSTAL AND RUN ★

An exhibit of the Destrol System can be seen at  
THE BUILDING CENTRE, STORE STREET,  
TOTTENHAM COURT ROAD, LONDON



Agents, Stockists still wanted in some areas.

Write for illustrated leaflet to:



Pat.

Family model £18 10s. 0d.

MONARCH 8422

DESTROL SALES LTD., 402 SALISBURY HOUSE, LONDON WALL, LONDON, E.C.2.

# books

an illustrated catalogue of books on  
architecture, planning, building practice  
and kindred subjects will be sent on  
application to

THE ARCHITECTURAL PRESS

9-13 Queen Anne's Gate Westminster SW1

now ready

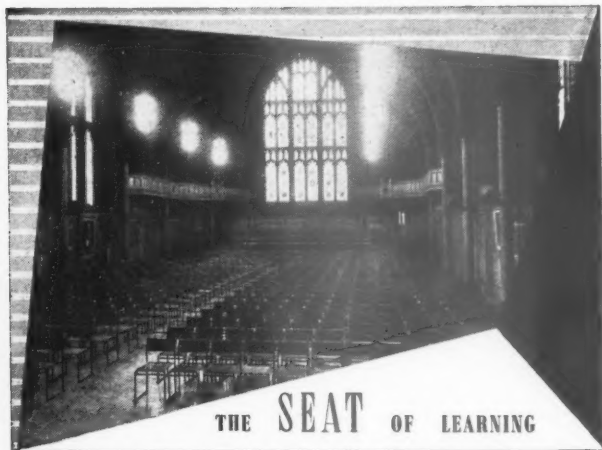
## FOUNDATIONS

FOR HOUSES AND OTHER SMALL

STRUCTURES by W. H. Elgar, MA, MEng, AMICE,  
FRICS Forewords by Noel Dean, MA  
and James Macgregor, FSA

How to arrive at an adequate, safe  
foundation design whatever the soil  
and subsoil; how to avoid needless waste  
of money below ground level; how to  
test the behaviour and physical properties  
of subsoils. The book contains 92 pages  
with 52 line illustrations.  
Price 12s. 6d. net, postage 5d.

THE ARCHITECTURAL PRESS 9 Queen Anne's Gate SW1



THE SEAT OF LEARNING



Whittle tubular steel stacking chairs are here seen in a  
renowned 'Seat of Learning' — the Whitworth Hall of the  
University of Manchester. The comfort afforded by their  
design, which is covered by patent No. 494774, illustrates  
their usefulness in the pursuit of learning, and it can truly  
be said that Whittle stacking chairs pass every examination  
with distinction.

*Whittle*

We also manufacture and design  
Tubular Steel Chairs, Tables, Furni-  
ture and Equipment for Schools, Halls,  
and all Public Buildings. Suppliers  
to the leading Educational and Public  
Authorities throughout the World.

Telephone: ECCLES 1407

**R. W. WHITTLE LTD.**

P.V. WORKS, MONTON, ECCLES, MANCHESTER.

*Brownall*

**HIGH JOINT  
STRENGTH  
FITTINGS**

• IN NON-FERROUS  
METALS

**EASY-CLEAN  
LABORATORY  
FITTINGS**

In Chrome, Black-Bronze,  
Polished & Lacquered Brass  
Finish.

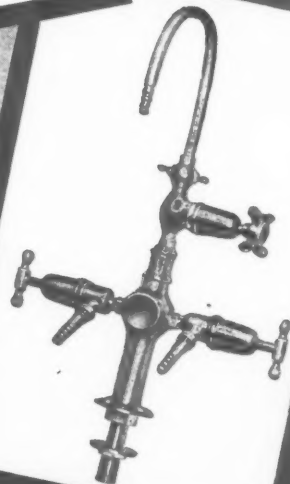
COMPRESSION Fittings  
for Hospitals and Indus-  
trial Buildings.

For 1/2 in. to 6 in. Tube.

Gunmetal Screwed  
Fittings to B.S.  
Table 1 and B.S.P.  
Threads.

Solder (Capillary)  
& Welding for all  
Heating Work.

SEND FOR  
CATALOGUES  
DATA AND  
PRICES ETC.



**DONALD BROWN (Brownall) LTD.**  
LOWER MOSS LANE MANCHESTER 15

Tel: DEAnsgate 4754/5 Grams: "DONABROW" Manchester.

THREE GOOD JOINTS ...

# FOR COPPER TUBES



**STANDARDIZED**  
COMPLYING WITH THE  
LATEST BRITISH STANDARDS  
...QUALITY PRODUCTIONS YOU  
CAN SPECIFY WITH CONFIDENCE  
**COMPRESSION JOINTS**  
LIMITED  
TYBURN ROAD · BIRMINGHAM 24

# Functional...

IN THE FULLEST SENSE

Seven capacities from  
21,000 to 75,000 B.T.U's  
per hour.

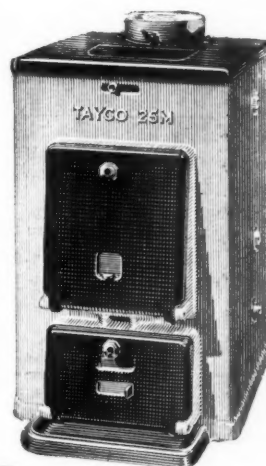
Designed in accordance  
with B.S.S. 758.

Approved by Fuel Effi-  
ciency Dept. of Ministry  
of Fuel and Power.

Robert Taylor & Co.  
(Ironfounders) Ltd.

Larbert, Stirlingshire

London Office & Showrooms—  
66 Victoria Street, S.W.1  
Also at Building Centre—  
26 Store Street, W.C.1.

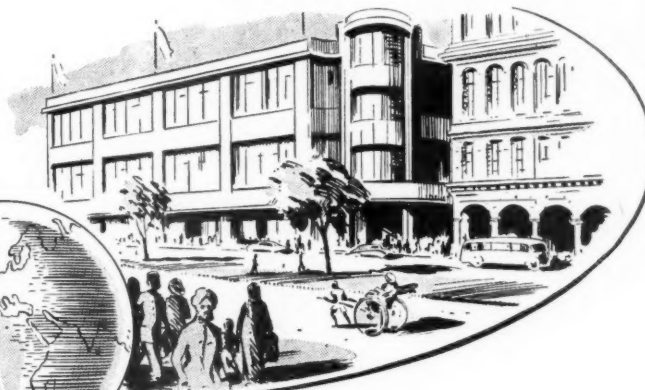
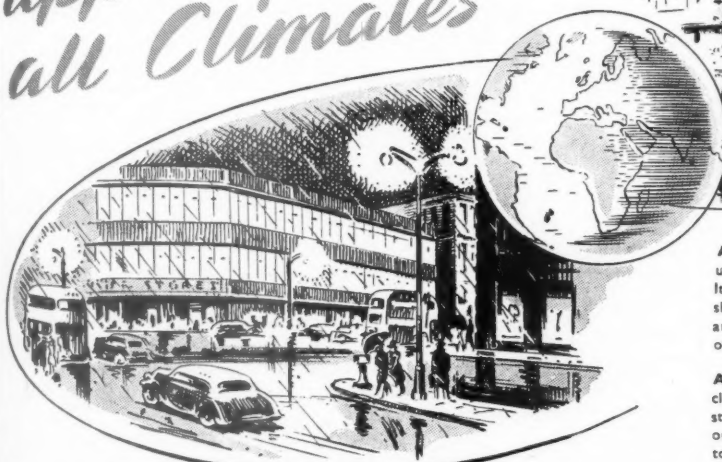


# Tayco

DOMESTIC  
BOILERS

# ARBOLITE and ARBOMAST B.I

*Universally  
approved for  
all Climates*



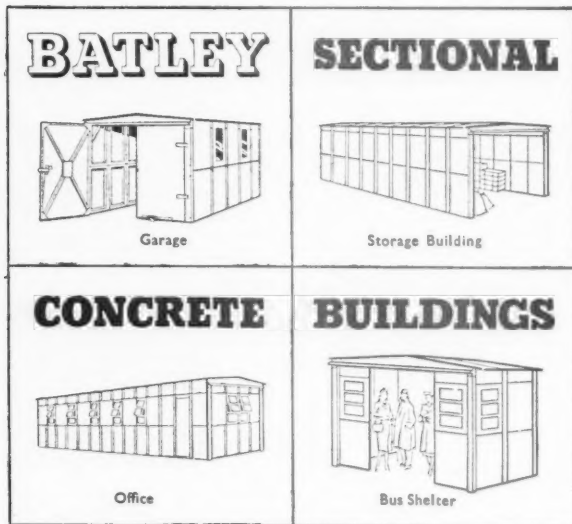
**ARBOLITE METAL CASEMENT PUTTY** is supplied in a "ready for use" consistency and consequently requires no pre-mixing on the site. It works easily, points neatly and remains exactly as finished without shrinking, cracking or wrinkling. Arbolite has excellent keying properties and ensures a tight, tough waterproof joint, adding considerably to the life of metal windows.

**ARBOMAST B.I BEDDING MASTIC** withstands the most rigorous climatic conditions and eliminates all possibility of running, sagging and staining. Equally suitable for bedding frames into brick or wood surrounds, or for completely filling the interstices when composite units are coupled together with mullion and transom bars.

**ADSHED RATCLIFFE & CO · LTD · BELPER. DERBY**

PHONE  
BELPER 351/2

*At a fraction of the cost of brick construction*



Batley Buildings can be erected at a fraction of the cost of brick structures by saving time, labour and material costs. Assembled from standardised tongued and grooved concrete units they are permanent, portable, weatherproof and fireproof. Windows and doors can usually be located according to requirements. Once erected Batley Buildings require no maintenance. Used extensively by leading Industrial and Municipal bodies.

Full details are contained in illustrated Brochure sent free on request to:

**ERNEST BATLEY LTD., 63 COLLEDGE RD., HOLBROOKS, COVENTRY**  
Tel.: 89245/6

specify modern



heating

& cooking equipment

& you can't go far

wrong

WHAT FOOL  
PUT THAT  
IN?



ESSE manufactures include a full range of the most modern heavy-duty cooking equipment: Boiling Pans, Steaming Ovens, Hot Closets, Carving Tables, Fish Fryers, Water Boilers, Calorifiers, etc., for steam, gas and electricity. ESSE Cooking Equipment is frequently installed along with ESSE Heat Storage Cookers which give continuous cooking service day and night with outstanding fuel economy.

The ESSE COOKER CO.  
Proprietors: Smith & Wellstood Ltd. Est. 1854.  
Head Office & Works: Bonnybridge, Scotland.  
London: 63 Conduit St., W.1.  
and Liverpool, Edinburgh and Glasgow.

Artists  
IN STONE



The traditional high quality of Croft Adamant Reconstructed Stone is well-known to architects. The specified details of ornamental work and figures are executed with the utmost care, ensuring perfect reproduction and permanence.

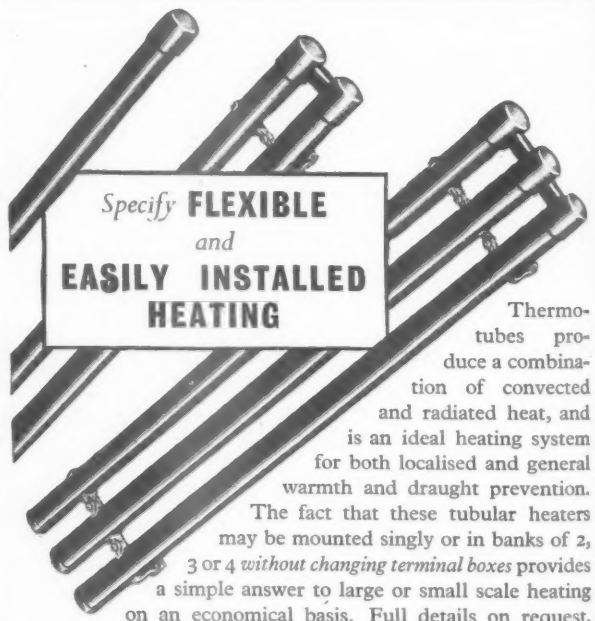
**CROFT  
ADAMANT**  
*Reconstructed Stone*

Croft aggregates are carefully balanced and thoroughly consolidated and mouldings accurately profiled. We shall welcome your enquiries.

ALWAYS SPECIFY  
**CROFT  
ADAMANT**

CROFT GRANITE, BRICK & CONCRETE CO., LTD.  
CROFT, Near LEICESTER, Phones, Narborough 2261-2-3

LONDON: 7 Victoria Street, Westminster, S.W.1 Telephone: ABBey 4802  
BRANCH OFFICE & WORKS: West Bank, Widnes Phone: Widnes 2656-7



Specify **FLEXIBLE**  
and  
**EASILY INSTALLED  
HEATING**

Thermotubes produce a combination of convected and radiated heat, and is an ideal heating system for both localised and general warmth and draught prevention.

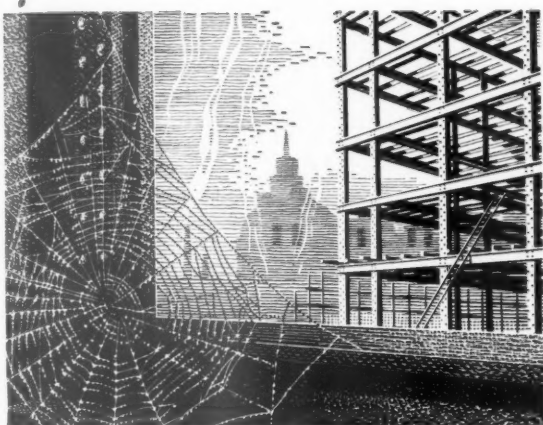
The fact that these tubular heaters may be mounted singly or in banks of 2, 3 or 4 without changing terminal boxes provides a simple answer to large or small scale heating on an economical basis. Full details on request.

**Thermotube**  
*electric heaters*

The Thermovent Technical Advisory Service is always glad to help in the planning of Space Heating equipment for any kind of building.

THERMOVENT HEATING:  
E. K. COLE LTD. 5 VIGO STREET, LONDON, W.1





## NO CAUSE FOR ALARM—TO SPIDERS

The iridescent film of moisture that lies so gracefully—and harmlessly—upon the spider's web will creep and rust and corrode the metal webs that are woven out of steel and iron. The spider can safely ignore moisture. You, however, must fight it with protective paint. The best paints you can specify for this purpose are based on Spelthorne Metallic Lead Pigment. This is a 99% purity finely divided metallic lead in a balanced medium. It protects both by exclusion and inhibition—first by stopping moisture from attacking metal in the form of rust, second, by stopping rust-creep should any part of the metal protective coating become damaged.

Samples, prices and full details from:— Witco Chemical Co. Ltd., 101 Baker Street, London, W.1, and 30 Cross Street, Manchester, 2, or from the makers:—

**SPELTHORNE METALS LTD.**

34 BERKELEY SQUARE, LONDON, W.1

# DUNBRIK

## THE PRECISION FACING BRICK

Introduced in 1934 and since specified by Government Departments, Local Authorities, Leading Architects, Builders, etc. Buildings faced with Dunbriks include Houses, Schools, Factories, Hospitals, Drillhalls, Cinemas, Flats, Office Blocks, etc.

Dunbriks are Manufactured by:—

London and Home Counties

**DUNBRIK LIMITED** 26, Chilworth Street, London, W.2. 'Phone: Paddington 2471/2

Suffolk, East and Central Essex

**ALPHAMSTONE BRICK & TILE CO. LTD.**

Alphamstone, near Bures, Suffolk. 'Phone: Twinstead 229

Dorset, S.W. Hants and S. Wilts.

**W. E. MASTERS, Brick Manufacturer, Lytchett Minster,** near Poole, Dorset. 'Phone: Lytchett Minster 291/2

Oxon, Berks, N. Wilts and N. Glos.

**THE COTSWOLD BRICK AND TILE CO. LTD.,**

Standlake, near Witney, Oxon. 'Phone: Standlake 284

East and West Ridings, Yorkshire

**DUNBRIK (YORKS) LTD.,** Stanley Ferry, near Wakefield, Yorks. 'Phone: Wakefield 3694

Counties of Notts, Lincs, Leicester, Rutland, Derby.

**THE HOVERINGHAM GRAVEL CO., LTD.**

Hoveringham, Notts. 'Phone: Bleasby 242

Scotland

**SCOTTISH DUNBRIK LTD.,** 250, Alexandra Parade, Glasgow, E.1. 'Phone: Bridgeton (Glasgow) 1818; Dundee 81673

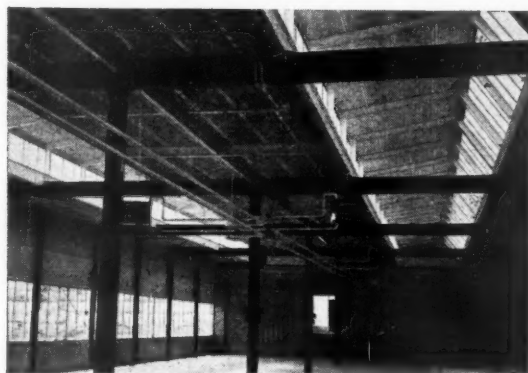
Ulster

**DUNBRIK (ULSTER) LTD.,** Doagh Station, Co. Antrim, N. Ireland. 'Phone: Doagh 59

Beauty · Economy · Permanence · Uniformity

# Thermacoust

CHANNEL REINFORCED  
WOOD WOOL ROOFING SLABS



Standard Factory, Harlow Industrial Estate, Harlow Development Corporation.  
Executive Architect: V. Hamnett, B.Sc., A.R.I.B.A., A.R.I.C.S.

## ★ IDEAL FOR FACTORY ROOFS

★ For Flat or Pitched roofs

★ NO purlins needed at less than 7 ft. centres

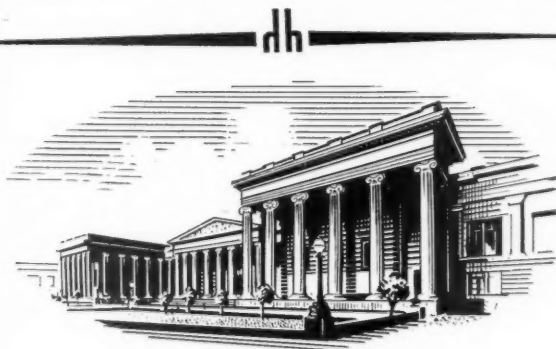
★ NO other insulating material has greater structural strength

★ PERFECTLY adapted for valley gutter construction

For full details, information sheets and prices write to:—

T.10

**THERMACOUST LTD.,** 39 VICTORIA STREET, LONDON, S.W.1. (Abbey 2738)



## FOR SECURITY REASONS

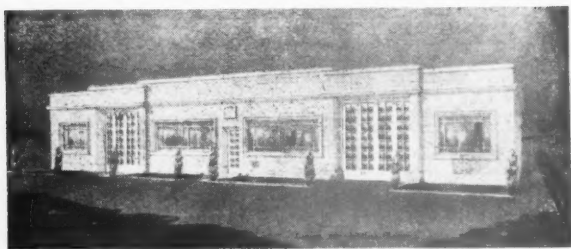
*The British Museum  
is one of many famous  
buildings fitted with*

**HOBBS & CO'S  
Security Equipment**

LOCKS · WALL SAFES · SAFES & STRONG ROOMS

Details gladly sent on request.

**HOBBS HART & Co. Ltd.,** 76 Cheapside, London, E.C.2. Tel: City 1709



**Pre-cast  
CONCRETE  
Cast Stone  
Granolithic  
Terrazzo  
EBOR**

RAPID DELIVERIES OF  
FENCING  
PAVING  
WALLING  
BLOCKS  
AND PRE-FAB  
STRUCTURES  
IN MANY SIZES

**CONCRETES LTD. URE BANK, RIPON**

Telephone: Ripon 202

**THE SOLID FUEL COOKER**  
with the patent  
**AIR FLUE OVEN**

The oven of the No. 30  
COURTIER COOKER has  
a patent air flue which balances  
top and bottom heat and greatly  
improves cooking efficiency;  
there are no oven flues to clean

Large Boiling Panel

Ample Hot Water Supply  
for 25-30 gallon circulating  
cylinder

Fuel consumption 1½-2 cwt.  
per week

Back or upward flue outlet

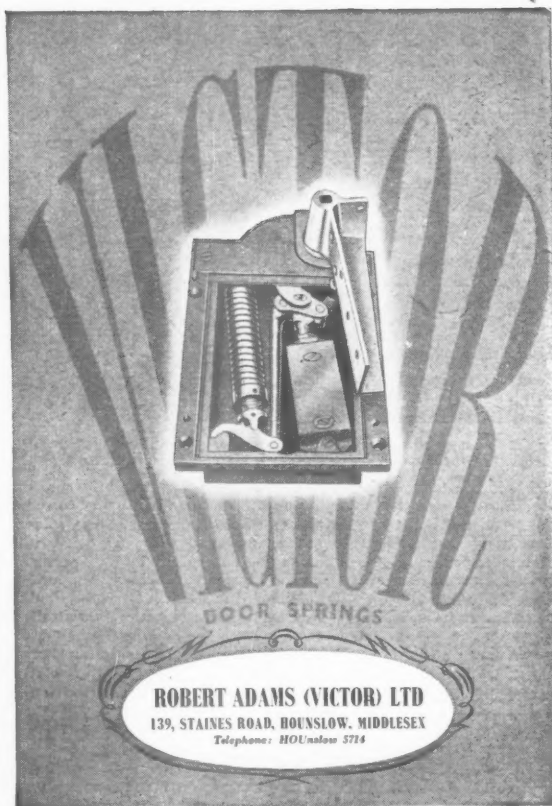
Coloured enamel finishes



*The* **Courtier**  
COOKER

Literature on  
application

**MITCHELL, RUSSELL & CO. Ltd., BONNYBRIDGE, SCOTLAND**  
Showrooms: 36 Newman St., London W.1; 13 Dixon St., Glasgow C.2



DOOR SPRINGS

**ROBERT ADAMS (VICTOR) LTD**  
139, STAINES ROAD, HOUNSLOW, MIDDLESEX  
Telephone: HOUnslow 5714

Victor Door Springs are installed in the Royal Festival Hall.

FOR INFORMATION ON  
**COPPER TUBES**

*Write for this 16 page publication*

PRESENTING IN CONCISE FORM

- PROPERTIES
  - B.S.S. SPECIFICATION DETAILS
  - APPLICATION DETAILS
  - WEIGHTS OF VARIOUS GAUGES
- ETC. . . .

**ROWNSON'S TUBES**

ARE THE MOST ECONOMICALLY  
PRICED TUBES AVAILABLE



**ROWNSON DREW & CLYDESDALE LTD**

Established 1819

Telephone: Waterloo 6321-6

225 UPPER THAMES STREET, LONDON, E.C.4

THE ORIGINAL  
**SOLENT**  
REGD.



Specially made and highly recommended  
for Institutions, Hospitals, Schools, etc.

With a reputation for  
QUALITY, DURABILITY  
and  
RESISTANCE TO SEA AIR

**LISLE MUNDAY & Co. LTD**  
Head Office: SOLENT PAINT WORKS  
SOUTHAMPTON

# HALL WIDE SPAN BUILDINGS

For CANTEENS • STAFF RECREATION  
ROOMS • WORKSHOPS for LIGHT WORK



Hall's are renowned for their timber buildings not only as manufacturers but as prime designers and pioneers. Your needs receive the personal attention of those responsible for the high Hall standard and any building purchased is backed by the reputation, skill, and integrity of Halls of Paddock Wood. Building for Industry, Education, Sport, Municipal or Constructional needs. Site offices and Contractors' Huts also supplied. NO MATERIAL LICENCES NEEDED.

*Let us quote you for your requirements, write.*

**HALL'S** Dep. A.J. **PADDOCK WOOD  
TONBRIDGE KENT**

**Oxalid**  
Reg. T.M.

**EVERYTHING  
FOR THE  
DRAWING OFFICE  
& PRINT ROOM**

Send trade card or letterhead for  
Illustrated Catalogue

**OZALID COMPANY LIMITED**  
62, London Wall, London, E.C.2.  
Telephone: MONarch 9321 (6 lines)  
Branches and Agency Stockists throughout the  
U.K. and Eire.

*Switches of Character*  
AND FAULTLESS PERFORMANCE



No. 101  
'Architrave'  
Type

**NEW DAY**

ELECTRICAL ACCESSORIES LTD.  
136-8 Mary Street, Birmingham, 12. Tel: Calthorpe 2621



SOME USERS OF



Lightfoot Refrigeration

ESTABLISHED 1885

**GOVERNMENT DEPARTMENTS**

Admiralty  
Air Ministry  
War Office  
Ministry of Agriculture  
Ministry of Education  
Ministry of Food  
Ministry of Health  
Ministry of Supply  
Ministry of Works  
Crown Agents for the Colonies  
Department of Scientific & Industrial Research

**AIR CONDITIONING**

Firth-Vickers Stainless Steels Ltd.,  
per The Visco Engineering Co. Ltd.  
The Royal Arsenal, Woolwich,  
per Heat & Air Systems Ltd.  
Tubes Ltd.,  
per Carrier Engineering Co. Ltd.

**BACON CURING**

Henry Denny & Sons Ltd.  
C. & T. Harris (Calne) Ltd.  
Hilliers Bacon Curing Co. Ltd.

**BEER-CELLAR COOLING**

Bass, Ratcliffe & Gretton Ltd.  
James Deuchar Ltd.  
Wm. Younger & Co. Ltd.

**BISCUIT MANUFACTURE**

Wm. Crawford & Sons Ltd.  
W. & R. Jacob & Co. Ltd.  
McVitie & Price Ltd.

**BREWERIES**

A. Guinness, Son & Co. Ltd.  
Mitchells & Butlers Ltd.  
Worthington & Co. Ltd.

**BUTCHERS**

J. H. Dewhurst Ltd.  
J. E. Grinditch  
James B. Meiklejohn

**BUTTER MAKING**

Cregagh Dairies Ltd.  
Leckpatrick Co-operative Dairy Ltd.  
Ulster Creameries Ltd.

**CHEMICALS AND EXPLOSIVES**

British Xylonite Co. Ltd.  
Imperial Chemical Industries Ltd.  
Monsanto Chemicals Ltd.

**CHOCOLATE MANUFACTURE**

Cadbury-Fry-Pascall Pty. Ltd.  
Mayfair Products Ltd.  
Rowntree & Co. Ltd.

**COLD STORAGE**

The Port of London Authority  
Trafford Park Cold Storage Ltd.  
Union Cold Storage Co. Ltd.

**CO-OPERATIVE SOCIETIES**

Co-operative Wholesale Society Ltd.  
London, Brighton, Bristol, Dover,  
Manchester & Salford, and Oldham  
Co-operative Societies, etc., etc.  
Scottish Co-operative Wholesale Society Ltd.

**DAIRIES**

Express Dairy Co. Ltd.  
Smith's Hygienic Dairies Ltd.  
The Milk Marketing Board

**DEPARTMENT STORES**

Lewis's Ltd.  
Marks & Spencer Ltd.  
F. W. Woolworth & Co. Ltd.

**DRUGS & FINE CHEMICALS**

Boots Pure Drug Co. Ltd.  
Burroughs, Wellcome & Co.  
Glaxo Laboratories Ltd.

**FISHMONGERS & POULTERERS**

Walter Bennet & Sons Ltd.  
MacFisheries Ltd.  
Sawers Ltd.

**FRUIT STORES**

T. W. Beach & Sons Ltd.  
Bobbing Orchards Ltd.  
A. Hinge & Sons Ltd.

**HOSPITALS**

St. Bartholomew's Hospital  
St. George's Hospital  
St. Thomas' Hospital

**HOTELS**

British Railways Hotels,  
Birmingham, Edinburgh, Hull,  
York, etc.  
The Dorchester Hotel  
The Savoy Hotel

**ICE-CREAM MANUFACTURE**

S. Forte  
J. Lyons & Co. Ltd.  
T. Wall & Sons Ltd.

**ICE MAKING**

Consolidated Fisheries Ltd.  
Hull Ice Co. Ltd.  
The Milford Haven Ice Co. Ltd.

**ICE MAKING & COLD STORAGE**

Bristol Industries Ltd.  
Sheffield Pure Ice & Cold Storage Co. Ltd.  
The Ulster Ice & Cold Stores Ltd.

**ICE RINKS**

Manchester Ice Rink  
Murrayfield Ice Rink  
Paisley Ice Rink

**JAM MANUFACTURE**

Wm. P. Hartley Ltd.  
Jas. Keiller & Son Ltd.  
James Robertson & Sons Ltd.

**MANUFACTURED FOODS**

Oliver Dring, Cambridge Sausages  
C. Shippam Ltd., Potted Meat  
John Waugh, Haggis

**MARGARINE MANUFACTURE**

Jurgens Ltd.  
The English Margarine Co.  
Unilever Ltd.

**MEAT FREEZING**

Queensland Meat Export and Agency Co Ltd., Australia  
The British & Argentine Meat Co. Ltd., Argentina  
Wellington Meat Export Co. Ltd., Wellington, New Zealand

**PHOTOGRAPHIC MATERIALS**

Criterion Plates Paper Films Ltd.  
Kodak Ltd.  
Technicolor Ltd.

**PROVISION MERCHANTS**

Fortnum & Mason Ltd.  
R. & T. Gibson Ltd.  
Wm. Whiteley Ltd.

**QUICK FREEZING PLANTS**

Batchelor's Peas Ltd.  
Birds Eye Foods Ltd.  
Smedley's Ltd.  
per Jacktone Froster Ltd.

**RAYON AND CELLOPHANE**

British Celanese Ltd.  
British Cellophane Ltd.  
Courtaulds Ltd.

**SHIPBUILDERS**

Cammell Laird & Co. Ltd.  
Harland & Wolff Ltd.  
R. & W. Hawthorn, Leslie & Co. Ltd.

THE LIGHTFOOT REFRIGERATION COMPANY LTD., ABBEYDALE ROAD, WEMBLEY, MIDDLESEX



## CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the *Advt. Manager, "The Architects' Journal,"* 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

## Public and Official Announcements

2s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is exempted from the provisions of the Notification of Vacancies Order, 1952.

**LIVERPOOL REGIONAL HOSPITAL BOARD.**  
Applications are invited from suitably qualified persons for appointment of ASSISTANT QUANTITY SURVEYOR in Regional Architect's Department, at 88, Church Street, Liverpool, 1.

Applicants should have passed the Intermediate examination of the Royal Institute of Chartered Surveyors (Quant. Sub-Division) and should have had considerable experience in a Quantity Surveyor's Office in working up, abstracting and billing, measuring and adjusting variations; settling contractors' final accounts and some experience in taking off is essential.

Salary £520+£15/£20-£570 per annum. The successful candidate may be required to pass a medical examination.

Applications stating age, education, qualifications, experience and present and previous appointments, with the names and addresses of three referees should reach the undersigned at 19, James Street, Liverpool, 2, by 17th April, 1952.

VINCENT COLLINGS,  
Secretary to the Board.  
6624

BOROUGH OF OSSETT.  
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above permanent appointment in the Borough Surveyor's Department at a salary in accordance with A.P.T., Grade VI (£545-£710 per annum).

Candidates should hold a recognised architectural qualification and should have had experience in housing work with a Local Authority.

The appointment will be subject to the National Conditions, the provisions of the Local Government Superannuation Act, 1937, one month's notice on either side and the passing of a medical examination. Housing accommodation will be made available to the successful candidate if required.

Applications in envelopes endorsed "Architectural Assistant," giving details of age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, are to be addressed and delivered to the undersigned not later than Monday, the 21st April, 1952.

Candidates must declare their relationship, if any, with any member or senior official of the Council.

Canvassing in any form will disqualify.  
B. FREEMAN,  
Town Clerk.  
27th March, 1952.  
6625

COUNTY COUNCIL OF INVERNESS.  
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT (LAND SURVEYING) in the County Architect's Department. Salary scale: A.P.T. (2), Grade II, £460-£505, with placing on the scale according to experience and qualifications.

Candidates must have had a sound experience in the carrying out of surveys of Local Authority housing sites.

The Council will be prepared to provide housing accommodation for the successful candidate, if married.

The appointment will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, should be lodged with the undersigned within 14 days after the date of publication of this advertisement.

R. WALLACE,  
County Clerk.  
County Buildings, Inverness.  
6656

HUNTINGDON COUNTY COUNCIL.  
ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a QUANTITY SURVEYING ASSISTANT, at a salary in accordance with Grade III, A.P.T., of the National Council's Scales (£500+£15 to £545 per annum).

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, experience, present position and salary, together with copies of two recent testimonials or the names of two persons to whom reference could be made, should be delivered to S. J. Hands, A.R.I.B.A., County Architect, County Buildings, Huntingdon, by Monday, 21st April, 1952.

JOHN KELLY,  
Clerk of the County Council.  
County Buildings, Huntingdon.  
9th April, 1952.  
6655

THE URBAN DISTRICT COUNCIL OF  
KEYNSHAM.

## APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Engineer and Surveyor's Department, at a salary in accordance with A.P.T., VI (£645+£20 and £25 to £710).

Applicants must have had wide experience in the design and preparation of housing schemes and other architectural work, and possess a suitable technical qualification.

The appointment will be subject to one month's notice on either side, to the Local Government Superannuation Act, 1937, and to the submission of a satisfactory medical report.

Applications, stating age, qualifications and particulars of experience, and the names of two persons to whom reference may be made, should reach the undersigned not later than first post on Monday, 21st April, 1952.

Housing accommodation will be made available if required by the successful applicant.

GEO. R. ASHTON,  
Clerk of the Council.  
Council Offices, Keynsham, Bristol.  
31st March, 1952.  
6644

## THE UNIVERSITY OF LIVERPOOL.

Applications are invited for the post of SENIOR LECTURER AND STUDIO INSTRUCTOR in the School of Architecture, with special responsibilities in Architectural Design, at a salary scale of £1,150+£50-£1,350 per annum.

Applications, accompanied if possible by drawings or photographs of work, two testimonials, and the names of three referees, should be received not later than Monday, 5th May, 1952, by the undersigned.

STANLEY DUMBELL,  
Registrar.  
March, 1952.  
6637

DERBYSHIRE COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) QUANTITY SURVEYOR, and (b) ARCHITECT. A.P.T., Grade V, £570+£15 (2) and £20 (1) to £620 per annum.

Applications for particulars (stating for which appointment) to be obtained from F. H. Crossley, County Architect, St. Mary's Gate, Derby, not later than 16th April, 1952.

These posts are excepted from the Notification of Vacancies Order, 1952.  
10th April, 1952.  
6639

THURROCK URBAN DISTRICT COUNCIL.  
ENGINEER AND SURVEYOR'S DEPARTMENT.

## ARCHITECTURAL ASSISTANT, A.P.T., GRADE III.

A vacancy occurs in the Council's Architectural Staff for an Assistant, at a salary in accordance with Grade III of the A.P.T. Division of the National Scale of Salaries.

General Architectural experience is necessary, and previous success in some part or parts of the Examination leading to the qualification A.R.I.B.A. will be an advantage.

The Council may consider housing accommodation, if required, by the successful candidate if he lives beyond 20 miles from Thurrock.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, endorsed "Architectural Assistant, III," stating age, qualifications and experience, with copies of not more than three testimonials, should reach the undersigned not later than first post on Tuesday, 15th April, 1952.

Canvassing will disqualify, and applicants must disclose in writing any relationship to any member or senior officer of the Council.

A. E. POOLE,  
Clerk of the Council.  
Council Offices, Whitehall Lane,  
Grays, Essex.  
6646

METROPOLITAN BOROUGH OF HACKNEY.  
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for this permanent appointment at a salary in accordance with Grades A.P.T. V(a)-VI (£600-£710), plus London weighting allowance. The commencing salary may be fixed at a point above the minimum, according to the qualifications and experience of the successful candidate.

Candidates must have had a good general experience in design and construction, and hold an appropriate professional qualification.

The successful candidate will be required to undertake the oversight of the maintenance of Council's properties, including the preparation of specifications for and the technical supervision of repairs, alterations and improvements, in addition to general architectural work.

Conditions of appointment and application form may be obtained from the undersigned upon receipt of a stamped addressed foolscap envelope.

Completed application forms, endorsed "Assistant Architect," must be returned not later than first post on 21st April, 1952. The Council is unable to provide any housing accommodation for the successful candidate.

DUDLEY SORRELL,  
Town Clerk.  
Town Hall, Hackney, E.8.  
25th April, 1952.  
6645

COUNTY COUNCIL OF THE COUNTY OF  
LANARK.

## HOUSING DEPARTMENT.

Vacancies exist within the County Council for CIVIL ENGINEERING ASSISTANTS on the Staff of the County Housing Architect and Engineer (Hamilton).

Appointments range from a Junior to Senior capacity, and salary will be in accordance with the J.I.C. Scheme of Salaries and Conditions of Service, ranging from A.P.T. Grade I (£430-£475) to A.P.T. Grade VIII (£735-£810).

If preferred, appointment can be a temporary one. Candidates should have experience in surveying and contouring of land design and construction of road, etc., works, and the preparation of schedules and final measurements.

Although the salary grade and scale will be discussed and adjusted at the interview by selected candidates, written applications should indicate the preference compatible with the qualifications of the applicant.

Canvassing, directly or indirectly, will be a disqualification.

Applicants will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and successful applicants will require to pass a medical examination.

Applications, stating age, particulars of experience and qualifications, and accompanied by the names and addresses of three referees, to whom reference may be made, should be lodged with S. McColl, A.R.I.B.A., F.R.I.A.S., County Housing Architect and Engineer, 23, Beckford Street, Hamilton, not later than 30th April, 1952.

WM. C. BROWNIE,  
County Clerk.  
6648

COUNTY COUNCIL OF THE COUNTY OF  
LANARK.

## HOUSING DEPARTMENT.

Vacancies exist within the County Council for ARCHITECTURAL ASSISTANTS on the Staff of the County Housing Architect and Engineer (Hamilton).

Appointments range from a Junior to Senior capacity, and salary will be in accordance with the J.I.C. Scheme of Salaries and Conditions of Service, ranging from A.P.T. Grade I (£430-£475) to A.P.T. Grade VIII (£735-£810).

If preferred, appointment can be a temporary one. Candidates for Senior post should have experience in the design and construction of large housing developments.

Although the salary grade and scale will be discussed and adjusted at the interview by selected candidates, written applications should indicate the preference compatible with the qualifications of the applicant.

Canvassing, directly or indirectly, will be a disqualification.

Applicants will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and successful applicants will require to pass a medical examination.

Applications, stating age, particulars of experience and qualifications, and accompanied by the names and addresses of three referees, to whom reference may be made, should be lodged with S. McColl, A.R.I.B.A., F.R.I.A.S., County Housing Architect and Engineer, 23, Beckford Street, Hamilton, not later than 30th April, 1952.

WM. C. BROWNIE,  
County Clerk.  
6647

## LONDON COUNTY COUNCIL.

Vacancies for TOWN PLANNING ASSISTANTS (maximum £10 a week) (a) with training and experience as draughtsmen, or (b) studying for planning or architectural qualifications. Application forms (S.A.E.) from Architect, County Hall, S.E.1, quoting AR/EK/PD.2. (348)  
6660

ESSEX EDUCATION COMMITTEE.  
SOUTH-EAST ESSEX TECHNICAL COLLEGE  
AND SCHOOL OF ART.

Longbridge Road, Dagenham.

A full-time ASSISTANT LECTURER with recognised qualifications in Architecture required in September. Professional and teaching experience an advantage. Duties include Studio Work, Building Construction and Draughtsmanship to Intermediate R.I.B.A. standard, and some Final work (day and evening).

Salary: Grade "B" Assistant (£450+£25-£725 per annum plus training and graduate additions and London Allowance). Further particulars and application form from the Clerk to the Governors at the College (stamped addressed foolscap envelope).

B. E. LAWRENCE,  
Chief Education Officer.  
6662

## BOROUGH OF SHREWSBURY.

## BOROUGH SURVEYOR'S DEPARTMENT.

## CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Chief Architectural Assistant, salary A.P.T., Grade V (£570-£620 per annum).

Applicants must be well experienced in the design and construction of dwelling houses and in the preparation and administration of housing and general building contracts.

A knowledge of Specification writing and Bills of Quantities is desirable and preference will be given to candidates who have passed the Final Examination of the R.I.B.A.

Housing accommodation in the form of a flat will be available if required.

The appointment will be subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Act, 1937,

and to the passing of a medical examination and will be terminable by one month's notice on either side.

Applications must be submitted on the forms to be obtained from the Borough Surveyor, Mr. F. R. Dinnis, A.M.I.C.E., Guildhall, Shrewsbury, and must be received by him not later than Monday, 28th April, 1952.

S. R. H. LOXTON,  
Town Clerk.

Guildhall, Shrewsbury.  
2nd April, 1952.

6661

### Architectural Appointments Vacant 4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

**SENIOR ARCHITECTURAL ASSISTANT** required immediately. Good salary and prospects; 5-day week. Write to Messrs. J. M. Sheppard & Partners, 38, Bedford Place, W.C.1, giving particulars of age, qualifications, experience and salary required. 6597

**SENIOR ARCHITECTURAL ASSISTANT** wanted for busy private practice. Large-scale high-class work. Administrative ability looked for. State age, training, experience, present salary. Herbert J. Rowe, F.R.I.B.A., Martins Bank Building, Liverpool, 2. 6620

**ARCHITECT'S ASSISTANT** required immediately. Flat available if required. Gotch, Saunders & Surridge, Bank Chambers, Kettering. Telephone: Kettering 3165/6. 6612

**ARCHITECTURAL DESIGNER DRAUGHTSMAN** (age about 30) required by Gas and Chemical Engineering firm. Applicants should have experience in the preparation of working drawings, of details and layouts for industrial buildings. Apply, stating age, experience, etc., to Employment Exchange, Stockton-on-Tees. 6650

**ASSISTANT ARCHITECT** (Male) required for London office. Must be qualified, with experience of commercial office practice, and have a good knowledge of building construction, and be capable of preparing in scale and working drawings. Commencing salary, £594. Apply: Civil Engineer, Southern Region, British Railways, Waterloo Station, London, S.E.1. 6638

**ARCHITECTS' ASSISTANT** with at least 4 years' experience, preferably industrial. Write Clifford Tee & Gale, 5, Buckingham Palace Gardens, S.W.1. 6640

**CADBURY BROS., LTD.**, require an **ARCHITECTURAL ASSISTANT**, with knowledge of industrial design, able to assist with a large new factory on which construction is now commencing. Write, stating age, experience, and salary required, to E.M.A., Cadbury Bros., Ltd., Bournville, Birmingham. 6641

**SENIOR ARCHITECTURAL ASSISTANT** required for London office. Must be qualified and be able to take full charge of contracts. Write, stating experience, type of work accustomed to, age and salary. Box 6642.

**NAAFI** requires two qualified **ASSISTANTS** in the Architects' Section at Claygate. Age not exceeding 37 years. A sound knowledge of working drawings essential. Reply in first instance in writing, giving details and salary required, to: Director of Works and Buildings, NAAFI, Esher, Surrey. 6654

**PROMINENT** firm of Paint Manufacturers require **ARCHITECTURAL ASSISTANT** in their London office to prepare colour schemes and specifications for decoration of buildings. A high standard of perspective rendering in watercolour is required together with experience in decoration of buildings. Reply, giving details of experience, age, salary required to Box 6658.

### Architectural Appointments Wanted

**ARCHITECT, A.R.I.B.A.**, seeks a permanent part-time situation. Box 6623.

**B. ARCH., A.R.I.B.A.**, with 3 years' post-graduate office experience, requires temporary post from July to September in Oxford area (alternatively London). Any type of work considered. Box 6573.

**A. R.I.B.A. (28)**, contemporary outlook, 3 years' experience, seeks position with small London firm offering scope for imaginative, practical and administration ability. Box 426.

**BUILDING SURVEYOR AND ARCHITECTURAL ASSISTANT** (age 31), studying Special Final Examination R.I.B.A., requires responsible position with Chartered Architects and/or Surveyors, south or west England. Eight years' experience, including maintenance, alterations, working drawings, specifications, surveying and levelling. Scope for hard work, initiative and advancement essential. Present salary £575 p.a. Assistance with housing accommodation or flat desirable. Car/owner/driver. Details in confidence to Box 425.

**CHARTERED ARCHITECT (35)**, keen and energetic, seeks position in London area as **SENIOR ASSISTANT**, 18 years' practical experience. Box 424.

**REGISTERED ARCHITECT (43)**, energetic and experienced, specialist at housing, requires responsible position. £800 p.a. South-Eastern Counties preferred. Box 6653.

**A. R.I.B.A. (29)**, with over 7 years' practical experience in wide variety of contracts, seeks situation; temporary or permanent. Box 6657.

**STUDENT**, Intermediate standard (educated Oundle School and School of Architecture, Liverpool University), aged 24, 2nd Lieutenant R.E., Palestine and Kenya (1946-1948), seeks salaried position in Architect's office, London, whilst studying, outside office hours, for Final Examination, two years' hence. Box 427.

### Services Offered

4 lines or under, 7s. 6d.; each additional line, 2s.

**DRAUGHTSMANSHIP**, Designing and Artistry for all trades and professions. C. Leslie New, Architectural Designer, 46, Welfield Road, Birmingham, 15. Phone: EDG. 378. 6611

**SURVEYING and Levelling of Building Sites** and Measured Drawings undertaken by experienced Surveyor at moderate charges. Box 6583.

### For Sale or Wanted

4 lines or under, 7s. 6d.; each additional line, 2s.

**LONG** established Model and Diorama Maker's Business for Sale, owing to death of owner. Goodwill, equipment, and possibly premises. Write Ashenden, 41, Hans Place, S.W.1. 6640

**WANTED**—Antiquarian Plan Chest, second-hand, LAN. 5161. 6661

**THE OAK PANELLING FROM CALEHILL MANSION, KENT**, about 120 ft. by 11 ft. high with elaborate carved fireplace. Well preserved and now dismantled. Particulars from Hubert F. Finn-Kelcey, Estate Offices, Lymington, Folkestone.

### Miscellaneous

4 lines or under, 7s. 6d.; each additional line, 2s.

**A. J. BINNS, LTD.**, Specialists in the supply and fixing of all types of Fencing, Gates and Cloakroom Equipment. Harvest Works, 96/107, St. Paul's Road, N.1. Canonbury 2061.

**WINKFIELD MANOR NURSERIES, ASCOT**, lay out Rock and Formal Gardens and Labourless "Allweather" Tennis Courts. Eight Chelsea Gold Medals since 1947. Contractors to the Festival of Britain. Winkfield Row 393. 1714

# a pocket guide to MODERN buildings in LONDON

by IAN McCALLUM

THIS IS A NEW GUIDE BOOK which neither practising architects nor serious students of architecture, nor, for that matter, the layman, can afford to ignore. In his introduction, Mr McCallum outlines the development of architecture over the past century. In the following ninety pages he illustrates and describes the most significant modern buildings to be seen within seven miles of the centre of London, from Crawford's Offices in Holborn (1929) to the Royal Festival Hall on the South Bank (1951) and including—among other types—department stores, flats, health centres, permanent and temporary houses, offices. The book is compiled and arranged in such a way as to enable readers to find their way easily to the buildings discussed. For their convenience it is divided into four sections: North-west London, North-east, South-east and South-west; and full details of bus and L.T. railway routes are provided. The book is completed by a bibliography and comprehensive index, listing more than ninety buildings worthy of careful study.

Bound in stiff board cover. Size 5½" by 4½". 128 pages with 36 illustrations, 5 maps, a bibliography and 3 indexes. Price 3s. 6d. net, postage 4d.

THE ARCHITECTURAL PRESS 9-13 QUEEN ANNE'S GATE WESTMINSTER SW1

## HOTELS

**DOUGLAS (I.O.M.).—HOTEL METROPOLE.**  
Tel. 2381. Fully licensed. Resident orchestra. Ballroom. Room service. Manx farm produce. 'Phones all rooms. Ideal Holiday. Moderate tariff. Brochure apply I. Barker. 6502

**OFFICE ACCOMMODATION TO RENT.**  
**BROMLEY, Kent.** facing Station, on prominent corner site, suite of offices on 1st and 2nd floors, with separate entrance, over old-established Estate Agency. Compr. 5 rooms, total about 670 sq. ft. Cloakroom. Rent £300 p.a. excl. Further details from Carter, Law & Leech, 58, East Street, Bromley. RAVensbourne 2217/8. 6649

**FINCHLEY Estate Agent** offers Furnished Office, about 8 ft. by 8 ft.; use of telephone. Rent £3 per week. Own entrance. Apply Box 6651.

## Educational Announcements

4 times or under. 7s. 6d.; each additional line, 2s.  
**R.I.B.A. and T.P.I. EXAMS.**—Stuart Stanley (Tutor Sch. of Arch., Lon. Univ.) and G. A. Crockett, M.A./B.A., F./A.R.I.B.A., M./A.M.T.P.I. (Prof. Sir Patrick Abercrombie in assn.) prepare Students by correspondence tuition. 10, Adelaide Street, Strand, W.C.2. TEM. 1603/4.

## RIBA INTER, FINAL & SPECIAL FINAL

Postal Courses starting now in all or any subject including Design and Professional Practice.

### THE ELLIS SCHOOL

Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A.  
103B, OLD BROMPTON RD., LONDON, S.W.7  
Phone: KEN 4477/8/9 and at Worcester

## QUANTITY SURVEYING

Postal Courses for R.I.C.S., I.A.S.S., and I.Q.S. Exams. in all or any subject starting now. Tuition by well qualified tutors under the direction of the Principal: A. B. Waters, M.B.E., G.M., F.R.I.B.A. Descriptive booklet on request.

### THE ELLIS SCHOOL

103B, OLD BROMPTON RD., LONDON, S.W.7  
Phone: KEN 4477/8/9 and at Worcester

## MODELS

ESTAB. 1883.

John B. THORP

BY

FOR 98 GRAY'S INN ROAD, W.C.  
TOWN PLANNING PUBLIC BUILDINGS TELEPHONE:  
ESTATES and INTERIORS HOLBORN 1011

You are invited to write for an illustrated

(free) catalogue of

**BOOKS** on architecture, planning,

and kindred subjects to The Architectural

Press, 9-13 Queen Anne's Gate, London, SW1

## PROFESSIONAL ADVANCEMENT

through **ICS** STUDY COURSES

● I.C.S. Home Study Courses help the professional man to further his career.

● I.C.S. Students have won brilliant successes in the following Examinations:—

R. I. B. A.

Inst. Civil Eng.

Inst. Mun. Eng.

Inst. Struct. Eng.

R. Inst. Ch. Surveyors

Inst. Mech. Eng.

Inst. Clerk of Works

Inst. Ind. Admin.

All candidates are coached until successful.

First-class non-examination instruction is also available in Architecture, Accountancy, Auditing, Mun. Eng., Bldg. Contracting & Specifications, Qty. Surveying, Civil Eng., Draughtsmanship, Struct. Eng., Sanitary Eng., etc. Fees are moderate and include all books required. Write today for FREE booklet describing our Courses in any of the subjects mentioned above.

'Generous' discount to H.M. Forces.

## INTERNATIONAL CORRESPONDENCE SCHOOLS

Dept. 5A., 71, Kingsway, London, W.C.2

## FIBROUS PLASTERWORK OF EVERY DESCRIPTION

### ALLIED GUILDS

King Edward Square  
SUTTON COLDFIELD. Tel: Sut 3809

The World's Greatest Bookshop

## FOYLES

FOR BOOKS

### SPECIALISTS IN TRACING OUT-OF-PRINT BOOKS

New, secondhand & rare Books on every subject

Subscriptions taken for British, American and continental magazines

119-125 CHARING CROSS RD., LONDON, W.C.2  
Gerrard 5660 (16 lines) \* Open 9-6 (inc. Sats.)

ABSOLUTE NON-COMBUSTIBILITY WITH

## DURASTEEL

COMPOSITE STEEL & ASBESTOS ROOFING

CORRUGATED DURASTEEL Steel-cored Asbestos Sheeting conforms to Standard III Building Specification and combines mechanical strength with high fire resistance; DURABILITY • SAFETY • LOW MAINTENANCE

Send for data to manufacturers:—

Durasteel Ltd., Oldfield Lane, Greenford, Middx.  
Tel.: WAXlow 1051 (P.B.X.)

FOR INSIDE OR OUTSIDE USE  
**Aspilin**  
**Gloss**  
ENAMEL PAINT  
ADRIAN LLOYD (LTD) CARLETON, GLOUCESTER

**SPECIFY ELLISON** for HIGH VOLTAGE SWITCHGEAR—CIRCUIT BREAKERS of up to 3,000 amps. and STARTERS for electric Motors of up to 1,000 H.P.

MADE BY GEORGE ELLISON LIMITED, PERRY BARR, BIRMINGHAM, 22B

**METAMICA**  
Vermiculite Scientifically Applied

\* AGGREGATE

\* IN SITU APPLICATIONS

\* PREFABRICATED PRODUCTS

Technical Bulletins and Details from  
METAMICA LTD., OXGATE LANE, N.W.2  
GLA 6554

## FLOORING AT ITS BEST

SCHOOLS • OFFICES  
HOSPITALS  
HOTELS • FLATS  
SHOW ROOMS

**E.J. ELGOOD LTD.**  
INSULCRETE WORKS, YEOMAN ST. S.E.8

**ELCO CORK TILES**  
**NOEL WOOD MOSAIC**  
**GRANOFLEX ACID RESISTING FLOORING**  
**ELCO RUBBER TILES**  
**UNIFLOR ASPHALT TILES**  
OVER 1000 COMPLETED CONTRACTS SINCE 1945

INDUSTRIAL FLOORING SPECIALISTS  
TELEPHONE: BERmondsey 1144 (6 lines)



# Alphabetical Index to Advertisers

Acrow (Engineers), Ltd. ....	PAGE lxiv	Gillett & Johnston, Ltd. ....	PAGE lxiv	Radiation Group Sales, Ltd. ....	PAGE xxxv
Adams, Robt (Victor), Ltd. ....	lxxiv	Glow-Worm Boilers, Ltd. ....	x	Rawplug Co., Ltd., The. ....	lxxxi
Adshedd Ratcliffe & Co., Ltd. ....	lxxi	G.W.B. Electric Furnaces, Ltd. ....	lxli	Relay-a-Bell Burglar & Fire Alarm Co., Ltd. ....	lxxxi
Allied Guilds. ....	lxxix	Gypsoe Products, Ltd. ....	—	Rippers, Ltd. ....	lxix
Architectural Press, The, Ltd. ....	lxxviii, lxx	Gypsum Mines, Ltd. ....	lxv	Rownsdon, Drew & Clydesdale, Ltd. ....	lxxiv
Arens Controls, Ltd. ....	iv	Hall, John, & Sons (Bristol and London), Ltd. ....	—	Rubery Owen & Co., Ltd. ....	xx
Ascot Gas Water Heaters, Ltd. ....	xxii	Hall, Robt., & Co. (Kent), Ltd. ....	lxiii	Sealanco (St. Helens), Ltd. ....	vi
Aspinalls (Paints), Ltd. ....	lxxix	Harvey, G. A., & Co. (London), Ltd. ....	lxxvii	Semtex, Ltd. ....	lxxxi
Ayco, Ltd. ....	lxxv	Hickson's Timber Impregnation Co. (G.B.), Ltd. ....	lxxvii	Simplex Electric Co., Ltd. ....	—
Batley, Ernest, Ltd. ....	lxxii	Hille, S., & Co., Ltd. ....	xxxviii	Smith & Pearson, Ltd. ....	—
Berkhamsted Brick Co., Ltd. ....	xxxviii	Hills, F., & Son, Ltd. ....	lxlii	Smith's Fireproof Floors, Ltd. ....	lxix
British Plumber, Ltd. ....	lxix	Hobbs, Hart & Co., Ltd. ....	xi	Solignum, Ltd. ....	—
Britmac Electrical Co., Ltd. ....	lxix	Hope, Henry, & Sons, Ltd. ....	lxliii	Sommerfelds, Ltd. ....	lxix
Broad & Co., Ltd. ....	lxx	International Correspondence Schools ...	lxliii	Southern's Ltd. ....	lvii
Brown, Donald (Brownall), Ltd. ....	lxix	Jackson Electric Stove Co., Ltd. ....	lxliii	Spelthorne Metals, Ltd. ....	lxxlii
Carter & Co., Ltd. ....	lxli	Jenson & Nicholson, Ltd. ....	lxliii	Sterling Foundry Specialities, Ltd. ....	—
Celotex, Ltd. ....	lxli	Kenyon, Wm., & Sons, Ltd. ....	lxliii	Storry, Smithson & Co., Ltd. ....	—
Cement Marketing Co., Ltd. ....	lx	Kinnear Shutters ....	xxxvii	Sutcliffe Speakman & Co., Ltd. ....	—
Chandos Engineering, Ltd. ....	lxix	Kwikform, Ltd. ....	xxxvi	Tarmac, Ltd. ....	—
Colt Ventilation, Ltd. ....	lxvii	Laing, John, & Son, Ltd. ....	lxv	Taylor, R., & Co. (Ironfounders), Ltd. ....	lxxi
Cole, E. K., Ltd. ....	lxvii	Leatherfor, Ltd. ....	lxv	Thames Plywood Mfrs., Ltd. ....	—
Compactom, Ltd. ....	lxvii	Lennox Foundry Co., Ltd. ....	lxxvii	Thermaconst, Ltd. ....	lxxlii
Compression Joints, Ltd. ....	lxvii	Lightfoot Refrigeration Co., Ltd. ....	—	Thermalite, Ltd. ....	—
Concrete, Ltd. ....	lxvii	Limmer & Trinidad Lake Asphalt Co., Ltd. ....	xxx	Thompson, John (Beacon Windows), Ltd. ....	xviii
Constructors' Group ....	lxvii	Lion Foundry Co., Ltd. ....	lxxvi	Thorn, J., & Sons, Ltd. ....	lxxix
Copper Development Association ....	lxvii	Lisle, Munday & Co., Ltd. ....	—	Thorp, John B. ....	—
Cornish De Lank Granite Quarries Co., Ltd. ....	lxvii	Lockhart Equipment, Ltd. ....	lxv	T.I. Aluminium, Ltd. ....	—
Denny, Mott & Dickson, Ltd. ....	lxv	Mallinson, W., & Sons, Ltd. ....	lxv	T.M.C. Harwell (Sales), Ltd. ....	lxxvii
Destrol Sales, Ltd. ....	lxv	Marley Tile Co., Ltd., The ....	lxv	Tretol, Ltd. ....	lx
Downing, G. H., & Co., Ltd. ....	lxv	Mellows & Co., Ltd. ....	lxv	Truett & Steel, Ltd. ....	—
Dreadnought Fireproof Doors (1930), Ltd. ....	lxvi	Merchant Trading Co., Ltd., The ....	lxv	Tucker, Duncan (Tottenham), Ltd. ....	lxv
Dunbrik, Ltd. ....	lxvii	Metallic Seamless Tube Co., Ltd., The ...	lxv	Tucker, J. H., & Co., Ltd. ....	lxi
Dunastel, Ltd. ....	lxvii	Metal Sections, Ltd. ....	lxv	Turner, Chas., & Son, Ltd. ....	—
Ebor Concrete, Ltd. ....	lxvii	Meta Mica, Ltd. ....	lxv	Turners Asbestos Cement Co., Ltd. ....	lix
Edison Swan Electric Co., Ltd. ....	lxvii	Midland Electric Mfg. Co., Ltd. ....	lxv	United Kingdom Provident Institution ...	—
Elgood, E. J., Ltd. ....	lxvii	Mills Scaffold Co., Ltd. ....	lxv	Val De Travers Asphalt Paving Co., Ltd. ....	lii
Ellis School of Architecture, The ....	lxvii	Mitchell, Russell & Co., Ltd. ....	lxv	Venetian Vogue, Ltd. ....	—
Ellison, George, Ltd. ....	lxvii	Morris Singer Co., Ltd. ....	lxv	Vulcan Products, Ltd. ....	xxi
Esavian, Ltd. ....	lxvii	Neuchatel Asphalt Co., Ltd., The ....	lxv	Walker Bros., Ltd. ....	—
Esse Cooker Co., Ltd. ....	lxvii	New Day Electrical Accessories, Ltd. ....	lxv	Walker, Crosswell & Co., Ltd. ....	—
Evode, Ltd. ....	v	Newman, Wm., & Sons, Ltd. ....	lxv	Walpamur Co., Ltd., The ....	xvi
Falkirk Iron Co., Ltd., The ....	lxv	Northern Aluminium Co., Ltd. ....	lxv	Ward, Thos. W., Ltd. ....	xlvi
Falk Stadelmann & Co., Ltd. ....	lxv	Ozalid Co., Ltd. ....	lxv	Wheatley & Co., Ltd. ....	—
Federation of Coated Macadam Industries ....	lxv	Phoenix Rubber Co., Ltd. ....	lxv	Wheeler, F. H., & Co., Ltd. ....	—
Fibreglass, Ltd. ....	lxv	Plywood & Timber Products Agencies, Ltd. ....	lxv	Whittle, R. W., Ltd. ....	lxx
Flexo Plywood Industries, Ltd. ....	lxv	Prodorite, Ltd. ....	lxv	Williams, James, & Sons, Ltd. ....	viii
Foyles ....	lxv	—	—	Williams, John, & Sons (Cardiff), Ltd. ....	—
Gas Council, The ....	lxv	—	—	Williams & Williams, Ltd. ....	—
Gibson, Arthur L., & Co., Ltd. ....	lxv	—	—	Wright, John, & Sons (Veneers), Ltd. ....	—
—	—	—	—	Zinc Alloy Rust Proofing Co., Ltd. ....	lxxx

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational  
Legal Notices, Miscellaneous Property, Land and Sales, see lxxvi, lxxvii, lxxviii, lxxx.

## YOURS for the Asking

LEARN HOW TO:—  
SPECIFY,  
TEST,  
USE,

### SHERARDIZING

## ZINC ALLOY RUST PROOFING CO. LTD.

SHAKESPEARE STREET, WOLVERHAMPTON

TELEPHONE: WOLVERHAMPTON 20647/8

ALSO AT LONDON & ROCHDALE.





PAGE  
xxxv  
lxxx  
xxx  
lxix  
lxxiv  
xx  
vi  
xxxli

lxix  
lxi  
lvii  
lxxlii

lxxi  
lxxlii

xviii  
lxxix

xxx  
lxxvii  
lx

lxx  
lxi  
lix

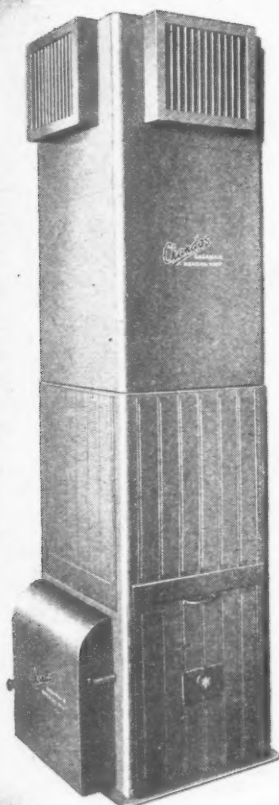
iii  
xxi

xvi  
xlili

lxx  
viii

\* lxi  
lxxx





# Chandos

## "GASANAIR" HEATING UNIT *Overall Warmth* IN 10 MINUTES!

Instal the CHANDOS "Gasanair" Heating Unit and heating problems vanish. No overnight stoking, no long warming-up period, just switch on for pleasant evenly distributed warmth in ten minutes.

This compact Cabinet Model occupies the minimum floor space and cuts out costly structural alterations. The unique 'gas purification' system ensures efficient heating at a **new low cost**. A special Chandos feature is its dual-purpose adaptability. In hot weather it can be used for ventilation and cooling.

### *Dimensions* Height 7' 9" - Base 22½" Square.

*Cabinets at present available in sizes:-*

110 cub. ft.	55,000 B.T.U's	300 cub. ft.	150,000 B.T.U's
200 cub. ft.	100,000 B.T.U's	400 cub. ft.	200,000 B.T.U's

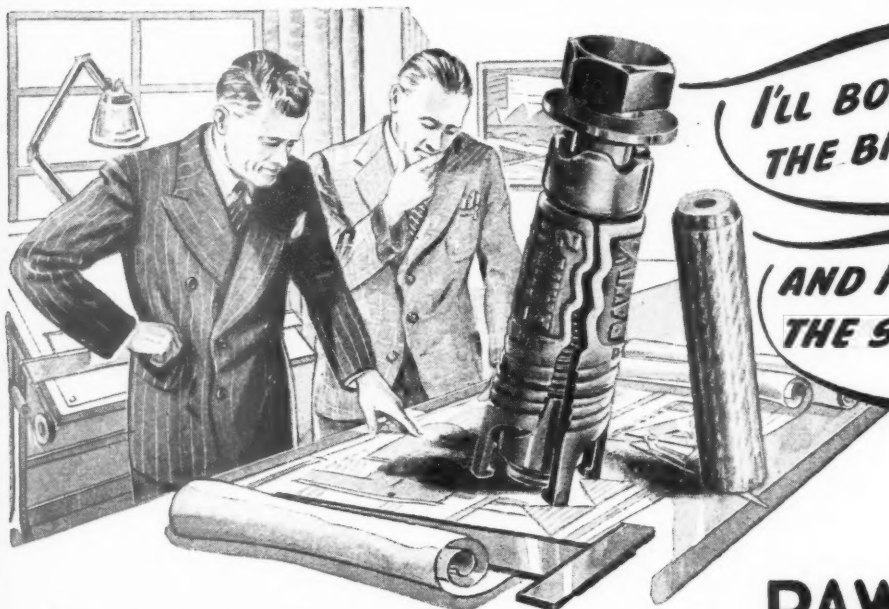
*Other models up to one million B.T.U's/hour*

**Write for full details to:**

**CHANDOS ENGINEERING CO. LTD**

**17 HIGH STREET · EGHAM · SURREY**

Telephone: Egham 3041-2



**I'LL BOLT DOWN  
THE BIG MACHINES**

**AND I'LL FIX  
THE SWITCHGEAR**

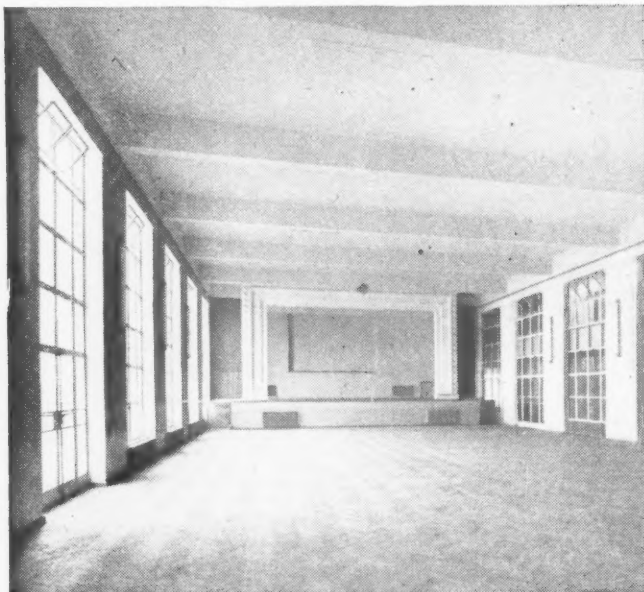
**GET** that new plant into action quickly—speed up the fixings! Machinery and equipment? Bolt it down same day with Rawlbolts. Screw fixings—wiring, lighting, pipes, switchgear and the rest—fix them fast, firm and permanently with Rawlplugs. Rawlplugs are the world's speediest, vibration-proof fixing devices—in brick, cement, concrete and all types of masonry.

*Use Rawlplug Fixing Devices where "speed is the essence of the contract"*

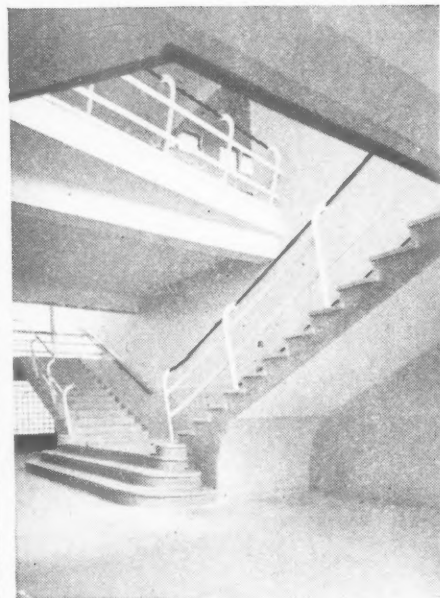
**RAWLPLUG**  
**FIXING DEVICES**

WRITE FOR TECHNICAL LITERATURE

**THE RAWLPLUG COMPANY LIMITED · CROMWELL ROAD · LONDON · S.W.7**



ASSEMBLY HALL



MAIN ENTRANCE HALL

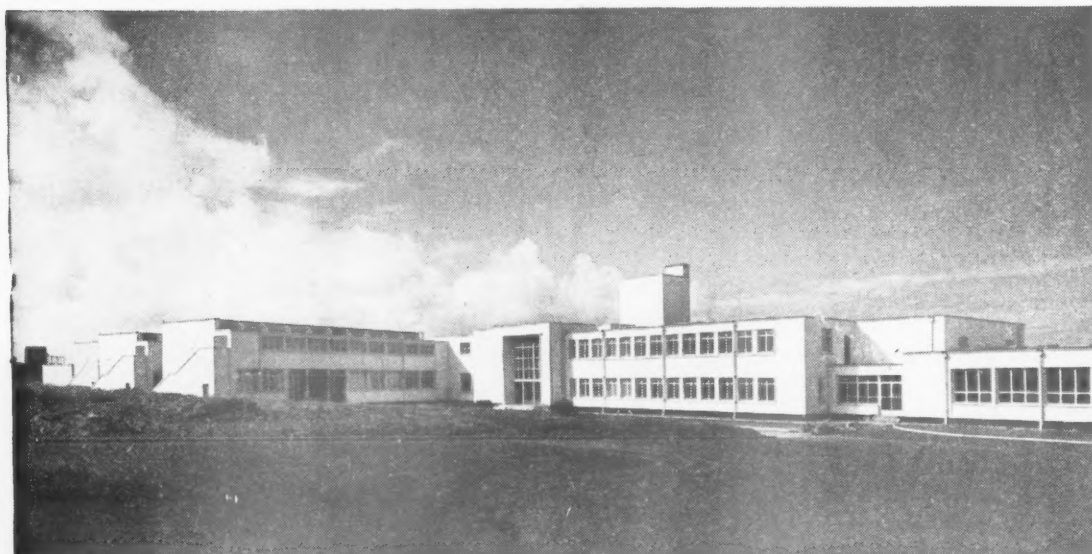
## KELLS SECONDARY SCHOOL, WHITEHAVEN

*County Architect: John H. Haughan, F.R.I.B.A.*

This school, the largest in Cumberland, has been designed to suit the contours of the site and stands on a headland 270 feet above sea level in the town of Whitehaven.

*John Laing and Son Limited, Building and Civil Engineering  
Contractors, London NW7, Carlisle, Johannesburg and Lusaka  
Established in 1848*

**LAING**



FRONT ELEVATION



